Dear BSA Council:

On behalf of the Corresponding Members Committee (Richard Olmstead, Tom Ranker, and Gordon Uno, Chair), I am pleased to present three individuals for nomination for this award in 2018. Corresponding members are distinguished senior scientists who have made outstanding contributions to plant science and who live and work outside of the United States. Corresponding members have all the privileges of life-time members. The three possible nominees are Dr. Brigitte Meyer-Berthaud, Dr. Harufumi Nishida, and Dr. Vashist Pandey. Attached are their CVs for your consideration. Thank you. Gordon Uno, BSA Past-President

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SubmitterFName: Kathleen

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NomineeFName: Harufumu

NomineeLName: Nishida

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NomineeInstitution: Chuo University, Tokyo, Japan

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WorkConsidered: Professor Harufumi Nishida is an internationally known and well respected scientist who has contributed substantially to our understanding of plant evolution, phylogeny and biogeography through the study of fossil plants. His earlier work provided detailed description of a highly diverse Cretaceous flora with anatomical preservation from Hokkaido, Japan. Additional significant work is his contribution to the development of Southern Hemisphere paleobotany, in particular that of Chile where he has outlined significant features of floral distributional change through time. Most recently he has elucidated structural and structural functional details of the Late Permian glossopterids, including details of their seed- and pollen-bearing reproductive remains, and the recognition of swimming sperm resembling those of cycads. These results further confirm the diversity within the glossopterids and demonstrate the more basal grade of some features. Professor Nishida is also an excellent international botanical citizen collaborating frequently with colleagues from diverse places and participating actively in national and international organizations to promote botany and broader issues of biodiversity and climate change.

Importance: The most important aspects of Professor Nishida's work are (1) his contributions to Cretaceous anatomical study of Japan, most especially in the study of fiicalean ferns and taxodiaceous, pineaceos and araucarian conifers; (2) his work in helping to develop paleobotany in Chile, and (3) his work on glossopterid plants from Australia. Any one of these areas is a substantial contribution to our understanding of evolution and development of the history of vascular plants. His participation through research collaborations, attendance at meetings, and the holding of positions in

organizations have added to his stature as a distinguished member of the international botanical community worthy of this nomination.

BSA CORRESPONDING MEMBER NOMINATION

Date: March 15, 2018

Nominee: Dr. Harfumi Nishida
Professor
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EXPLANATION OF THE QUALIFICATIONS AND ACHIEVEMENTS OF THE CANDIDATE.

- **CAREER**

Professor Harufumi Nishida is an internationally known and well-respected scientist who has contributed substantially to our understanding of plant evolution, phylogeny and biogeography through the study of fossil plants. His earlier work provided a detailed description of a highly diverse Cretaceous flora with anatomical preservation from Hokkaido, Japan. Additional significant work is his contribution to the development of Southern Hemisphere paleobotany, in particular that of Chile where he has outlined significant features of floral distributional change through time. Most recently he has elucidated structural and structural/functional features of the Late Permian glossopterids, including details of their seed- and pollen-bearing reproductive remains, and the recognition of swimming sperm resembling those of cycads. These results further confirm the diversity within the glossopterids and demonstrate the more basal grade of some features. Professor Nishida is also an excellent international botanical citizen, collaborating frequently with colleagues from diverse places and participating actively in national and international organizations to promote botany and broader issues of biodiversity and climate change.

- **RESEARCH**

The most important aspects of Professor Nishida's work are (1) his contributions to Cretaceous anatomical study of Japan, most especially in the study of fiicalean ferns and taxodiaceous, pineaceous and araucarian conifers; (2) his work in helping to develop paleobotany in Chile, and (3) his work on glossopterid plants from Australia. Any one of these areas is a substantial contribution to our understanding of evolution and development of the history of vascular plants. His participation through research collaborations, attendance at meetings, and the holding of positions in organizations has added to his stature as a distinguished member of the international botanical community worthy of this nomination.

12 January, 2018

Harufumi NISHIDA

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Invited Professor
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The University of Tokyo
7-3-1 Hongo, Bunkyo, Tokyo 113-0033

II. Research Field

Paleobotany: Vascular plant evolution, plant morphology, phytogeography

III. Personal History and Education

15 Mar. 1954	Born in Chiba City, Japan
Mar. 1977	B.Sc. Biology, Chiba University
Mar. 1979	M.Sc. Biology, Chiba University
Mar. 1983	D.Sc. Kyoto University Thesis: Anatomical studies of the frond axis of the Cyatheaceae, *s.l.*, with a revision of the frond axes from the Cretaceous of Japan

IV. Employment History

2006-2011	Invited Professor, Jilin University, China
2005-Present	Invited Professor, Graduate School of Science, University of Tokyo
2005-2011	Invited Professor, University on Air
1997-Present	Professor of Biology, Faculty of Science and Engineering, Chuo University
1995-1997	Invited Associate Professor, Graduate School of Science, University of Tokyo

1992-1997	Associate Professor, General Education, International Budo University
1989-1992	Lecturer, General Education, International Budo University
1984-1989	Assistant Professor, General Education, International Budo University
1983-1984	Assistant Professor, Faculty of Science, Chiba University

V. Professional Associations

Botanical Society of America, Paleobotanical Section
International Organization of Paleobotany
International Association of Plant Taxonomists (life membership)
American Fern Society
Botanical Society of Japan
Paleontological Society of Japan
Japan Society for Plant Taxonomists
The Society for the Study of Phytogeography and Taxonomy
The Japanese Society of Plant Morphology
Japanese Association of Historical Botany
Japan Palynological Society
Society of Biosophia
The Biological Society of Chiba

VI. Academic Awards

June 2015	2014 Best Paper Award, Paleontological Society of Japan (with Julien Legrand et. al.)
March 2006	Japan Society for Plant Taxonomists Award
September 2004	The Plant Morphologist Award, The Japanese Society of Plant Morphology
June 2003	Paleontological Society of Japan Academic Award
Sept. 1990	Botanical Society of Japan Promotion for Young Scientists Award

V. Social Activities (selected)

2012-2016	Vice-President, International Organization of Paleobotany
2006-2011	Representative of the Union of Japanese Societies for Natural History
2003, 2006, 2009, 2012, 2015	National Delegate to the International Union of Biological Sciences (IUBS) General Assembly, Science Council of Japan
2003-Present	Member of Japan National Committee for Biological Sciences, Science Council of Japan
2000-2016	Secretary General, Biodiversity Network Japan (NGO)
1994-2003	Member of Japan National Committee for Paleonotology, Science Council of Japan

VI. Research Publications

92. Sender, L. M., Nishida, H., and J. B. Diez. 2018. Extinct tree fern *Tempskya* Corda from the Albian of Spain: palaeophytogeographical and palaeoenvironmental implications. Earth and

Environmental Science, Transactions of the Royal Society of Edinburgh (accepted).

91. Nishida, H. 2017. Aims, Scopes and Results. In: Nishida, H. et al. (eds), IUBS Biology International, Special Issue 36, DAB: Disaster and Biodiversity. pp. 2-6.

90. Ohsawa, T. A., A. Yabe, T. Yamada, K. Uemura, K. Terada, M. Leppe, L. F. Hinojosa, and H. Nishida. 2016. Araucarian leaves and cone scales from the Loreto Formation of Río de Las Minas, Magellan Region, Chile. Botany 94: 805-815.

89. Stockey, R.A., H. Nishida, and B. A. Atkinson. 2016. Anatomically preserved fossil cornalean fruits from the Upper Cretaceous of Hokkaido: *Eydeia hokkaidoensis* gen. et sp. nov. American Journal of Botany 103: 1-16.

88. Hinojosa ,L.F. et al. 2015. Non-congruent fossil and phylogenetic evidence on the evolution of climatic niche in the Gondwana genus *Nothofagus*. Journal of Biogeography Wiley Online 43(3): 555-567.

87. Legrand, J., T. Yamada and H. Nishida. 2014. Palynofloras from the upper Barremian-Aptian Nishihiro Formation (Outer Zone of southwest Japan) and the appearance of angiosperms in Japan. Journal of Plant Research 127: 221-232.

86. Nishida, H., K. B.Pigg, K, Kudo, and J. F. Rigby 2014. New evidence of the reproductive organs of *Glossopteris* based on permineralized fossils from Queensland, Australia. II: Pollen-bearing organ *Ediea* gen. nov. Journal of Plant Research 127: 233-240.

85. Yamada, T. and H. Nishida 2014. Old but new stories on plant diversity. Journal of Plant Research 127: 185-186.

84. Legrand, J., D. Pons, T. Kazuo, A. Yabe and H. Nishida. 2013. Lower Cretaceous (upper Barremian-lower Aptian?) palynoflora from the Kitadani Formation (Tetori Group, Innere Zone of Japan). Paleonotological Research 17(3): 201-229.

83. Terada, K., H.Nishida and Sun Ge. 2011. Fossil woods from the Upper Cretaceous to Paleocene of Heilongjang River area of China and Russia. Global Geology, China Academic Journal Publishing 14(3): 192-208.

82. Legrand J., D. Pons, H. Nishida, and T. Yamada 2011. Barremian palynofloras from the Ashikajima and Kimigahama formations (Choshi Group, Outer Zone of south-west Japan). Geodiversitas 33(1) : 87-135.

81. Yamada, T., H. Nishida, M. Umebayashi, K. Uemura and M. Kato. 2008. Oldest record of Trimeniaceae from the Early Cretaceous of northern Japan. BMC. Evolutionary Biology, BioMed Central 8: 135

80. Nishida, H., K. B. Pigg, K. Kudo and J. Rigby. 2007. New evidence of reproductive organs of *Glossopteris* based on permineralized fossils from Queensland, Australia. I. Ovulate organ *Homevaleia* gen. nov. Journal of Plant Research 120: 539-549.

79. Karafit S. J., G. W. Rothwell, R. A. Stockey, and H. Nishida 2006. Evidence of sympodial vascular architecture in a filicalean fern rhizome: *Dickwhitea allenbyensis* gen. et. sp. nov.

(Athyriaceae). International Journal of Plant Sciences 167(3): 721-72.

78. Smith S. E., R.A. Stockey, H. Nishida and G. W. Rothwell 2006. *Trawetsia princetonensis* gen. et.sp. nov. (Blechnaceae): A permineralized fern from the Middle Eocene Princeton Chert. International Journal of Plant Sciences 167(3): 711-719.

77. Pigg, K. B. and H. Nishida, 2006. The significance of silicified plant remains to the understanding of *Glossopteris*-bearing plants: an historical review. Journal of the Torrey Botanical Society 133: 46-61.

76. Yabe, A., K. Uemura, H. Nishida, and T. Yamada 2006. Geological notes on plant megafossil localities at Cerro Guido, Ultima Esperanza, Magallanes (XII) Region, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 5-10.

75. Nishida, H., K. Uemura, K.Terada, T. Yamada, M. H. Rancusi, and L. F. Hinjosa, L. F. 2006. Preliminary report on permineralized plant remains possibly from the Paleocene Chorrillo Chico Formation, Magallanes Region, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 11-27.

74. Yabe, A., K. Uemura, and H. Nishida 2006. Geological notes on plant fossil localities of the Ligorio Marquez Formation, central Patagonia, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 29-35.

73. Okuda, M., H. Nishida, K. Uemura, and A. Yabe 2006. Palaeocene/Eocene pollen assemblages from the Ligorio Marquez Formation, central Patagonia, XI Region, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 37-43.

72. Hinojosa, L. F., O. Pesce, A. Yabe, K. Uemura, and H. Nishida 2006. Physiognomical analysis and paleoclimate of the Ligorio Marquez fossil flora, Ligorio Marquez Formation, 46°45'S, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 45-55.

71. Terada, K, T. O.Asakawa, and H. Nishida 2006. Fossil woods from Arroyo Cardenio, Chile Chico Province, Aisen (XI) Region, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 57-65.

70. Terada, K., Nishida, H., Asakawa, T. O. and Rancusi, M. H. 2006. Fossil wood assemblage from Cerro Dorotea, Ultima Esperanza, Magallanes (XII) Region, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 67-89.

69. Terada, K, T. O. Asakawa,. and H. Nishida 2006. Fossil woods from the Loreto Formation of Las Minas, Magallanes (XII) Region, Chile. In: Nishida H. (ed.), Post-Cretaceous Floristic Changes in Southern Patagonia, Chile. Chuo University, Tokyo, 91-101.

68. Terada, K., Ge Sun, and H. Nishida 2005. 3D models of two species of *Archaefructus*, one of the earliest angiosperms, reconstructed taking account of their ecological strategies. Memoir of the Fukui Prefectural Dinosaur Museum **4**: 35-44.

67. Okuda, M., Nishida, H., Uemura, K., Yabe, A., Yamada, T. and Rancusi, M. H. 2004. Palynological investigation and implications on the relationship between modern surface pollen and vegetation/climate (especially preipitation) in the Riesco Island (Isla Riesco), subantarctic Patagonia, Chile. Natural History Research, **8**: 1-11.

66. Nishida, H., K. B. Pigg, K. Kudo, and J. F. Rigby 2004. Zooidogamy in the Late Permian genus *Glossopteris*. Journal of Plant Research, **117**: 323-328.

65. Terada, K. and H. Nishida. 2004. Preliminary notes on Cretaceous and Tertiary woods from Heilongjang River Area of China. Proceedings of the 3rd Symposium on Cretaceous Biota and K/T Boundary in Heilongjang River Area, 33-38.

64. Matsumoto, M., and H. Nishida. 2003. *Osmunda shimokawaensis* sp. nov., and *Osmunda cinnamomea* L. based on permineralized rhizomes from the Middle Miocene of Shimokawa, Hokkaido, Japan. Paleontological Research 7: 153-165.

63. Nishida, H., K. B. Pigg and J. F. Rigby. 2003. Swimming sperm in an extinct Gondwanan plant. Nature 422: 396-397.

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61. Nishida, H. 2001. A leptosporangiate fern *Tempskya uemurae*, sp. nov. (Tempskyaceae) from the Cretaceous (Santonian) of Iwate Pref., Japan. Acta Phytotaxonomica et Geobotanica 52(1): 41-48.

60. Yatabe, Y., H. Nishida, and N. Murakami 1999. Phylogeny of Osmundaceae inferred from *rbcL* nucleotide sequences and comparison to the fossil evidences. Journal of Plant Research 112: 397-404.

59. Stockey, R. A., H. Nishida, and G. W. Rothwell 1999. Permineralized ferns from the Middle Eocene Princeton Chert. I. *Makotopteris princetonensis* gen. et.sp. nov. (Athyriaceae). International Journal of Plant Sciences 160 (5): 1047-1055.

58. Watanabe, K., H. Nishida, and T. Kobayashi 1999. Cretaceous Deuteromycetes on a Cycadeoidean bisexual cone. International Journal of Plant Sciences 160 (2): 435-443.

57. Nishida, H., A. Yoshida, and M. Nishida. 1998. Permineralized Matoniaceous fossils from the Cretaceous of Japan. Journal of Japanese Botany 73: 26-34.

56. Yoshida, A., H. Nishida, and M. Nishida. 1997. Permineralized Schizaeaceous fertile pinnules from the Upper Cretaceous of Hokkaido, Japan II. *Paralygocium yezoense* gen. et. sp. nov. Research Institute of Evolutionary Biology, Science Report 9; 1-10.

55. Nishida, H., and K. Uemura. 1997. Phytogeographic history of Taxodiaceae and importance of preserving mixed broad-leaved deciduous/evergreen forest. Tropics 6: 413-420.

54. Matsumoto, M., A. T. Ohsawa, M. Nishida, and H. Nishida. 1997. *Glyptostrobus rubenosawaensis* sp. nov., a new permineralized conifer species from the Middle Miocene, Central Hokkaido, Japan. Paleontological Research 1: 81-99. Research Institute of Evolutionary Biology, Science Report 8: 49-56.

53. Yoshida, A., M. Nishida and H. Nishida. 1996. Permineralized schizaeaceous fertile pinnules from the Upper Cretaceous of Hokkaido, Japan. Research Institute of Evolutionary Biology, Science Report 8: 85-94.

52. Yoshida, A., M. Nishida and H. Nishida. 1996. A permineralized Osmundaceous petiole from the Upper Cretaceous of Hokkaido, Japan.

51. Nishida, H. and N. Hayashi. 1996. Cretaceous coleopteran larva fed on a female fructification of extinct gymnosperm. Journal of Plant Research 109: 327-330.

50. Nishida, M., A. Yoshida, and H. Nishida. 1996. *Cretocycas yezonakajimae* gen. et sp. nov., a permineralized cycad petiole from the Upper Cretaceous of Hokkaido. Journal of Japanese Botany 71: 223-230.

49. Nishida, M., T. Ohsawa, H. Nishida, A. Yoshida and Y. Kanie. 1996. A permineralized magnolialean fructification from the Upper Cretaceous of Hokkaido, Japan. Research Institute of Evolutionary Biology, Science Report 9: 19-30.

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47. Nishida, M,. and H. Nishida. 1995. Pinoid woods with resin canals from the Upper Cretaceous of Hokkaido and Saghalien. Journal of Plant Research 108: 161-170.

46. Ohsawa, T., H. Nishida, and M. Nishida. 1995. *Yezonia*; A new section of *Araucaria* (Araucariaceae) based on permineralized vegetative and reproductive organs of *A. vulgaris* comb. nov. from the Upper Cretaceous of Hokkaido, Japan. Journal of Plant Research 108: 25-39.

45. Stockey, R. A., H. Nishida and M. Nishida. 1994. Upper Cretaceous araucarian cones from Hokkaido and Saghalien: *Araucaria nipponensis* sp. nov. International Journal of Plant Sciences 155: 806-815.

44. Nishida, H. 1994. Morphology and the evolution of Cycadeoidales. Journal of Plant Research 107: 479-492.

43. Nishida, H. 1994. *Elsemaria* gen. nov., a Late Cretaceous angiosperm fructification from Hokkaido, Japan. Plant Systematics and Evolution [Suppl.] 8: 123-135.

42. Tidwell, W. D. and H. Nishida. 1993. A new fossilized tree fern stem, *Nishidacaulis burgii* gen. et sp. nov., from Nebraska-South Dakota, USA. Review of Palaeobotany and Palynology 78: 55-67.

41. Ohsawa, T., H. Nishida and M. Nishida. 1993. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien. XIII. *Yubaristrobus* gen. nov., a new taxodiaceous cone from the Upper Cretaceous of Hokkaido. Journal of Plant Research 106: 1-9.

40. Stockey, R. A., H. Nishida, and M. Nishida. 1992. Upper Cretaceous cones from Hokkaido: *Araucaria nihonqii* sp. nov. Review of Palaeobotany and Palynology 72: 27-40.

39. Ohsawa, T., M. Nishida, and H. Nishida. 1992b. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien XII. *Obirastrobus* gen. nov., petrified pinaceous cones from the Upper Cretaceous of Hokkaido. Botanical Magazine, Tokyo 105: 461-484.

38. Ohsawa, T., M. Nishida and H. Nishida. 1992a. Structure and affinities of petrified plants from northern Japan and Saghalien X. Two *Sequoia*-like cones from the Upper Cretaceous of Hokkaido. Japanese Journal of Botany 67: 72-82.

37. Ohsawa, T., H. Nishida, and M. Nishida. 1992. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien. XI. A cupressoid seed cone from the Upper Cretaceous of Hokkaido. Botanical Magazine, Tokyo 105: 125-133.

36. Nishida, M., T. Ohsawa, and H. Nishida. 1992. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien VIII. *Parataiwania nihongii* gen. et sp. nov., a petrified taxodiaceous cone from the Upper Cretaceous of Hokkaido. Journal of Japanese Botany 67: 1-9.

35. Ohsawa, T., M. Nishida, and H. Nishida. 1991b. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien IX. A petrified cone of *Sciadopitys* from the Upper Cretaceous of Hokkaido. Journal of Phytogeography and Taxonomy 39: 97-105.

34. Ohsawa, T., M. Nishida and H. Nishida. 1991a. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien. VII. A petrified pinaceous cone from the Upper Cretaceous of Hokkaido. Journal of Japanese Botany 66: 356-368.

33. Nishida, M., H. Nishida and T. Ohsawa. 1991. Structure and affinities of the petrified plants from the Cretaceous of northern Japan and Saghalien VI. *Yezosequoia shimanukii* gen. et sp. nov., a petrified Taxodiaceous cone from Hokkaido. Journal of Japanese Botany 66: 280-291.

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31. Nishida, H. 1991. Diversity and significance of Late Cretaceous permineralized plant remains from Hokkaido, Japan. Botanical Magazine, Tokyo 104: 253-273 .

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9. Nishida. H. 1984. Anatomical studies of the frond axis of the Cyatheaceae. s.l., with a revision of permineralized frond axis from the Cretaceous of Japan. In M. Nishida ed., Contributions to the Botany in the Andes I. Academia Sci. Book, Tokyo, pp. 5-80. (D.Sc. thesis)

8. Nishida, H., and M. Nishida. 1983. On some petrified plants from the Cretaceous of Choshi, Chiba Prefecture. VII. Botanical Magazine, Tokyo 96: 93-101

7. Nishida, M., and H. Nishida. 1983. On some petrified plants from the Cretaceous of the Kwanto Mountains, central Japan. Botanical Magazine, Tokyo 96: 85-91.

6. Nishida, M., and H. Nishida. 1982. Histology of the rhizome of *Loxsomopsis* and affinity of *Solenostelopteris loxsomoides* Ogura. Acta Phytotaxonomica et Geobotanica 88: 302-307. (in Japanese with English summary)

5. Nishida, H., and T. Tanaka. 1982. Anatomical studies of *Cyathocaulis naktonqensis* Ogura from Central Honshu, Japan. Bull. Natn. Sci. Mus. Ser. C (Geol.). 8: 19-34.

4. Nishida, H. 1989. *Lophosoriorhachis japonica* n. gen. et sp. from the Lower Cretaceous of Choshi, Chiba Prefecture, Japan. Palaeontographica B. 181: ll8-122.

3. Nishida, H. 1981. A revision of the genus *Cyathorachis* in Japan. Botanical Magazine, Tokyo 94: 249-259.

2. Nishida, H. 1981. Anatomical studies of a new specimen of *Yezopteris polycycloides* Ogura from the Upper Cretaceous of Hokkaido. Journal of Japanese Botany. 56: 169-180.

1. Nishida, H. and M. Nishida. 1979. *Thyrsopterorachis* gen. nov. a tree fern rachis from the Upper Cretaceous of Hokkaido, Japan. Botanical Magazine, Tokyo 92: 187-195.

Books (selected)

3. Harufumi Nishida. 2017. Kaseki no Shokubutsugaku (The Natural History of Fossil Plants), University of Tokyo Press, Tokyo, 310 pp. (in Japanese)

2. Harufumi Nishida. 2000. Postscript: Global warming and biodiversity. The situation in Japan. In: Iwatsuki, K. et al. (eds), A Threat to Life. Tsukiji Shokan, Tokyo, and IUCN, Gland, pp. 152-155.

1. Harufumi Nishida. 1998. Shokubutsu no Tadottekita Michi (The way that plants have evolved), NHK books, Tokyo, 219 pp. (in Japanese)

ASU SCHOOL OF Life Sciences
ARIZONA STATE UNIVERSITY

14 March 2018

Dear Committee on Corresponding Members:

I am writing to nominate **Professor Harufumi Nishida** of Chuo University and The University of Tokyo for a corresponding membership in the Botanical Society of America. Professor Nishida is an internationally known, and well respected scientist whose research interests in paleobotany include vascular plant evolution, plant morphology, and phytogeography. His 92 publications span the globe from Japan, Chile, Spain, Canada, Russia, China, to Antarctica, stratigraphic ages from the Lower Carboniferous to the Miocene, and a diverse array of plant taxa. He is best known for the study of anatomically preserved plants from Cretaceous floras of Japan and Chile, and more recently for studies on the difficult Southern Hemisphere Permian glossopterids.

Among his most notable contributions from early in his career are his extensive systematic studies of permineralized plants from the Late Cretaceous flora of Hokkaido, Japan, a highly diverse assemblage that includes filicalean ferns (Cyatheaceae, Matoniaceae, Schizeaeceae), araucarian, pinaceous, cupressaceous and taxodiaceous conifers, bennettitaleans, cycads and magnoliid angiosperms. A second locality in Hokkaido of Miocene age has yielded osmundaceous ferns, conifers including *Glyptostrobus*, *Picea*, and a variety of angiosperms.

Haru also has a longstanding research program in South America, having produced some of the first major work on Cretaceous plants of Chile, and, in particular, detailed analyses of southern hemisphere fossil woods. He has done extensive fieldwork and discovered new sources of anatomically preserved plants in Chile and Japan. A series of papers on the Cretaceous to Paleocene palynology document patterns in Japan and Chile during this crucial interval in geological time.

Haru has always participated in paleobotany with an international perspective. He has applied his expertise from Japanese studies in collaborations with North American, South American and European colleagues. broadening his repertoire to include the Eocene Princeton chert, petrified tree ferns of Tasmania, and permineralized floras of Patagonia. His more synthetic works include reviews of fossil osmundaceous ferns in combination with molecular data, review of the highly diverse taxodiaceous conifers, and of the Southern Hemisphere plant *Nothofagus*.

Haru has published several books including a paleobotany textbook (in Japanese) and a volume on global warming and biodiversity, and edited a volume on post-Cretaceous floristic change in southern Patagonia. He has mentored graduate students of his own and

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generously hosted international postdoctoral students. He has worked with the University on Air, an online program in Japan similar to the UK's Open University. Professor Nishida has won awards from the Paleontological Society of Japan, the Japanese Society of Plant Morphology, and the Botanical Society of Japan. He has served as representative of the Union of Japanese Societies for Natural History, the International Union of Biological Sciences (IUBS).

The area where I have collaborated with Harufumi has been in our study of anatomically preserved *Glossopteris* plants of the Late Permian of Queensland, Australia. Glossopterid plants span and dominate the Permian Southern Hemisphere continents and have been difficult to interpret from their more common impression remains. A potential relationship to angiosperms has been suggested. Anatomically preserved forms, first discovered in the 1970s in Australia and Antarctica promised to help resolve the structure and evolutionary relationships of this major group of Gondwana plants.

We resolved the structure of two different seed-bearing structures, the *Dictyopteridium*-like genus *Homevaleia*, and a second type that resembles *Lidgettonia* (in press). The first structure produces a single, elongate, cigar-shaped seed-bearing structure on the upper side of the vegetative leaf, the second one has multiple seed-bearing units, each containing the basalmost seeds in little pockets at its base. We also described the pollen-bearing *Ediea* with specimens that demonstrate the simple cone-like structure with much branched units bearing pollen sacs with striate bisaccate pollen grains.

Most interestingly, Haru was able to document swimming sperm in the micropyles of *Homevaleia* ovules. These sperm are unusually large and have several gyres of helically arranged flagella, greatly resembling sperm of cycads. Pollen tubes produced are short and stubby in comparison to today's long, straight ones carrying nonmotile sperm, as found in angiosperms, conifers and some gnetophytes or the branched ones with haustorial types of cycads.

The significance of our work is that it demonstrates that glossopterids have a variety of types of reproductive structures and that their reproductive biology with swimming sperm bisaccate, striate pollen combines some angiosperm features with features that are not particularly angiosperm-like.

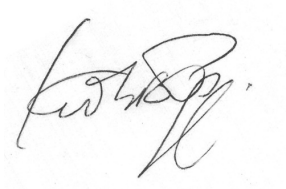
A long-time leader in botanical societies in Japan, Haru is a very active member of international, national and regional organizations. He hosted the IX International Organisation of Palaeobotany (IOPC) in 2012 and currently serves as its Vice President. He has been a longstanding and active member of North American scientific groups including ASPT, American Fern Society, Botanical Society of America, attending many

of the meetings, publishing in its journal and participating in symposia. He has been a frequent collaborator of colleagues across the globe who greatly appreciate his broad knowledge, painstakingly careful work and engaging sense of humor.

In conclusion, Harufumi Nishida has been an exemplary member of the international botany community. His academic contributions have advanced considerably our understanding of the evolution of several important groups of a wide range of vascular plants including ferns, conifers, cycads, bennettitaleans and Cretaceous angiosperms.

He has used his organizational and administrative talents to support and promote botany and conservation in his native Japan, and has served the international community of paleobotanists as an extraordinary friend and colleague. He is fully deserving of the honor of corresponding membership in BSA.

Sincerely yours,



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February 10, 2018

Dr. Tom A. Ranker, Chair
Corresponding Members Committee, BSA
University of Hawai‘i at Mānoa
Mānoa, Hawaii

Dear Tom,

I am writing to enthusiastically support the nomination of Professor. Harufumi Nishida of Chuo University, Tokyo, Japan, for Corresponding Membership in the Botanical Society of America. Dr. Nishida is a preeminent botanist and paleobotanist in Japan and in the international arena. I have known and worked with Dr. Nishida since about 1980, when he was completing his Ph.D. on anatomically preserved fossil ferns. During that time, we have been in close contact, have worked together in the field, have co-organized symposia, have co-authored publications, and have collaborated on the development of international botanical and paleobotanical institutions.

Haru has earned numerous awards within Japan, including those from the Paleontological Society of Japan (2014), the Japan Society for Plant Taxonomists (2006), The Japanese Society of Plant Morphology (2006), the Paleonotological Society of Japan (2004), and the Botanical Society of Japan (Promotion for Young Scientists Award, 1990). He also has been an enthusiastic participant in BSA activities, particularly at annual meetings and in Paleobotanical Section support. On the international front, he has served as National Delegate to the International Union of Biological Sciences (IUBS) General Assembly, and has been an active developer of paleobotanical infrastructure through our umbrella organization, the International Organisation of Palaeobotany. The latter includes serving as Vice President of the

Organization, and organizing the quadrennial International Organisation of Palaeobotany Conference in Tokyo, Japan (2012).

Dr. Nishida is an internationally renown paleobotanical researcher, having published more than 100 papers in peer reviewed journals of international stature. He is most well known and highly respected for his studies of anatomically preserved Paleozoic and Mesozoic plants, particularly ferns, conifers, and extinct gymnosperms. Of particular significance are his characterization of swimming sperm in the Permian Glossopteridales (Nature, 2003), his systematic studies utilizing both morphological and nucleotide sequence (*rbc*L) characters, his development of organisamal concepts for species of fossil plants, and his characterization of Upper Cretaceous floras of Japan as revealed in carbonate marine concretions.

Harufumi Nishida's international stature as a botanist and paleobotanist, his extensive record of scholarship, mentorship, his record of professional organization development, and his long-standing participation in BSA activities make him a particularly attractive candidate for Corresponding Membership. I strongly urge you to support his nomination for formal membership in the Botanical Society of America.

Sincerely,

Gar W. Rothwell
Distinguished Professor, and

Courtesy Professor of Botany and Plant Pathology
Oregon State University

Oregon State University

11 March 2018

Dr. Tom A. Ranker, Chair
Corresponding Members Committee, BSA
University of Hawaii at Manoa
Manoa, Hawaii

Dr. Tom:

I am pleased to write a letter of support for the nomination of Dr. Harufumi Nishida from Chuo University, Tokyo, Japan for Corresponding Member in the Botanical Society of America. Dr. Nishida is a well-known and respected botanist/paleobotanist in Japan and internationally. I have known Dr. Nishida since 1981 when we met in Sydney, Australia at the International Botanical Congress. I went on sabbatical leave to Chiba University in 1985/86 as a result of this meeting to work with Harufumi and his father Makoto Nishida who was working there at the time. I returned on a JSPS Fellowship to work with the Nishidas in 1989, and have several times since. We have carried on joint research involving conifers of the Pinaceae, Araucariaceae, and Cupressaceae as well as angiosperms (Cornales), and ferns (Athyriaceae). Harufumi Nishida was a visiting scientist in my lab at the University of Alberta in 1987 and again here at Oregon State University in 2015. He has on several occasions attended the BSA meetings to present the results of his research and attend functions of the Paleobotanical Section.

His early research dealt with both living and fossil ferns, but has included studies of diverse groups including extinct complex gymnosperms, conifers, glossopterids, bennettitaleans, cycads, and angiosperms. He has had a very active research program involving Japanese fossil plants and fossil plants from Chile, where he has also worked for decades. He is fluent in English and Spanish with equal facility. He is most well-known for his work on the swimming sperm of glossopterids from the Permian, use of morphology as well as nucleotide sequence characters in conifer phylogeny, and extensive study of the floras contained in calcium carbonate concretions from the Upper Cretaceous of Hokkaido, Japan.

Dr. Nishida is well-known in the International Organisation of Palaeobotany where he has been very active as a Vice President, most recently organizing the IOP Conference in Tokyo in 2012. He has received a large number of awards in Japan including those from the Paleontological Society of Japan, Japanese Society of Plant Morphology, Botanical Society of Japan, and Japan Society of Plant Taxonomists. He has organized a number of Japanese conferences and served on the prestigious committee for the International Prize for Biology, which is presented in honor of the Emperor of Japan.

He is currently actively training graduate students and postdoctoral fellows at Chuo University where he recently served as the Department Chair. He is very deserving of a Corresponding Membership in the Botanical Society of America, and we expect to see him at conferences regularly. I recommend him to

the Society whole heartedly and hope that you give him every consideration for this honor.

Sincerely,

Ruth A. Stockey
Courtesy Professor
Department of Botany and Plant Pathology
Oregon State University
2082 Cordley Hall
Corvallis, OR
97331
USA

BotanyID: aldecombeix

SubmitterFName: Anne-Laure

SubmitterLName: Decombeix

SubmitterEmail: anne-laure.decombeix@cirad.fr

SubmitterInstitution: CNRS, Montpellier, France

SubmitterPhone: +33 630852236

NomineeFName: Brigitte

NomineeLName: Meyer-Berthaud

NomineeEmail: brigitte.meyer-berthaud@cirad.fr

NomineeInstitution: CNRS, Montpellier, France

NomineePhone:

WorkConsidered: Dr Brigitte Meyer-Berthaud is one of the world's leading experts in Devonian- Early Carboniferous vascular plant diversity and biology. She has particularly contributed to a better understanding of Devonian floras, including the systematic affinities and architecture of some of the oldest known trees. Her work combines greatly detailed classic morpho-anatomical studies and more pioneering approaches to reconstruct the biology of fossil plants. She is also a remarkable field paleobotanist who has contributed to the discovery of key fossil plants in Europe but also in Australia, Morocco, and Antarctica. Dr Meyer-Berthaud has co-led research projects and established lasting collaborations with colleagues from around the world, e.g., Australia, Belgium, China, Morocco, Russia, UK, and USA. She has authored over 80 peer-reviewed papers, including in some of the highest ranked scientific journals such as Science and Nature. She has been a member of BSA for many years and has received the BSA Cichan award in 1997. Her achievements have also been recognized by the Prix Paul Bertrand from the French Academy of Science in 2006.

Importance: Dr Meyer-Berthaud's research focuses on a key time period that sees the progressive colonization of continental surfaces by plants (terrestrialisation), the apparition and diversification of all the main groups of vascular plants (e.g., lycopsids, ferns s.l., lignophytes), and the evolution of major morpho-anatomical traits. In this context, she has significantly contributed to our understanding of emblematic plants like the Devonian progymnosperm Archaeopteris, the first "modern" tree, and to the reconstruction of fossil floras from poorly documented regions of the world. Dr Meyer-Berthaud's research also shows how careful attention to morpho-anatomical characters can be used not only for systematics but also to understand fossil plants as once living

organisms that interacted with their environment. Her development of pioneering studies to model for example the architecture, carbon storage capacity, or hydraulic conductance in fossil plants highlight the mutual benefits of collaboration between paleo and neobotanists to understand plant evolution at many different levels.

BSA CORRESPONDING MEMBER NOMINATION

Date: March 8, 2018

Nominee:
Dr Brigitte Meyer-Berthaud
CNRS Senior Research Scientist
UMR AMAP, Montpellier, France
meyerberthaud@cirad.fr

EXPLANATION OF THE QUALIFICATIONS AND ACHIEVEMENTS OF THE CANDIDATE.

- **CAREER**

Dr Brigitte Meyer-Berthaud received her PhD in Montpellier in 1981. Her doctoral research supervised by Jean Galtier focused on Early Carboniferous lycopsids from France and lycopsid evolution. She then worked as a CNRS research assistant before being hired to a permanent CNRS researcher position at the Institut des Sciences de l'Evolution in Montpellier in 1985. In 1987 she received her "Thèse d'Etat" or Habilitation (the highest university degree delivered in France), with a research project on Early Carboniferous gymnosperms from Europe. Since 2005, she is a Senior Research Scientist at the CNRS and works in an interdisciplinary department that conducts fundamental and applied research on plants and plant communities. During her career, Dr Meyer-Berthaud did two postdoctoral stays abroad: one in the UK in 1982 where she worked at Bedford College with W.G. Chaloner and at Chelsea College with A.C. Scott, and one in the USA in 1988-1990 working with T.N. Taylor and E.L. Taylor at Ohio State University.
Dr Meyer-Berthaud has been a member of numerous committees at the department and university level. She is currently an elected member of the Advisory Board in Biology, Ecology, Evolution, Environment and Earth Sciences at the Université de Montpellier, a member of the department council, and the co-leader of the research groups "taxon" and "biodiversity" in her department.

- **RESEARCH**

Dr Brigitte Meyer-Berthaud is one of the world's leading experts in Devonian- Early Carboniferous vascular plant diversity, evolution and biology. She has particularly contributed to a better understanding of Devonian floras, including the systematic affinities and architecture of some of the oldest known trees. Her work combines greatly detailed, classic morpho-anatomical studies and more pioneering approaches to reconstruct the biology of fossil plants and their interaction with their environment. She is also a remarkable field paleobotanist who has contributed to the discovery of key fossil plants in Europe but also in Australia, Morocco, and Antarctica.

- **IMPACT**

Dr Meyer-Berthaud has authored over 80 peer-reviewed papers, including in some of the highest ranked scientific journals such as Science and Nature. She has co-led research projects and established lasting collaborations with colleagues from around the world, e.g., Australia, Belgium, China, Morocco, Russia, UK, and USA. She is involved in several professional societies and has served as president of the "Organisation Française de Paléobotanique" and as the secretary for Southern Europe of the International Organisation of Paleobotany. She has been a member of the Botanical Society of America for 32 years and received the BSA

Michael Cichan award in 1997. Her achievements have also been recognized by the Prix Paul Bertrand from the French Academy of Science in 2006, a €3,000 prize given only every four years for exemplary work in the broad field of paleontology.

- **MENTORING & TEACHING**

Dr Meyer-Berthaud has supervised >15 Master students and 4 PhD students, of which one is now a high school science teacher and three are paleobotanists at the CNRS, Université de Lyon, and the Royal Belgian Institute of Natural Sciences. In addition to the students that she has directly supervised, Dr Meyer-Berthaud has been a member of the advisory committee of 18 PhD students in the last 10 years, and an external examiner for 13 PhD defenses. Although her position is research-only, she teaches at the university on a voluntary basis, giving lectures on Paleozoic plants at both the undergraduate and graduate levels.

- **SIGNIFICANCE OF THE NOMINEE'S RESEARCH TO PLANT SCIENCE**

Dr Meyer-Berthaud's research focusses on a key time period that saw the progressive colonization of continental surfaces by plants (terrestrialization), the appearance and diversification of all the main groups of vascular plants (e.g., lycopsids, ferns s.l., lignophytes), and the evolution of major morpho-anatomical traits in these groups. In this context, she has significantly contributed to our understanding of origin and evolution of plants on the land, including emblematic plants like the Devonian progymnosperm *Archaeopteris*, the first "modern" tree, and to the reconstruction of fossil floras from poorly documented regions of the world. She has also participated in studies on the impact of this terrestralization process on Devonian environments.
Dr Meyer-Berthaud's research also shows how careful attention to morpho-anatomical characters can be used not only for systematics but also to understand fossil plants as once-living organisms that interacted with and affected their environment. Her development of pioneering studies to model, for example, the architecture or carbon storage capacity of fossil plants highlights the mutual benefits of collaboration between paleo- and neobotanists to understand plant evolution at many different levels.

- **10 SELECTED PUBLICATIONS (SEE CV FOR FULL LIST)**

Students and postdocs advised by BMB at the time of the project are underlined

[1] Vecoli M., Clément G. & **Meyer-Berthaud B**. 2010. The terrestrialization process: Modelling complex interactions at the biosphere-geosphere interface. *Geological Society of London, Special Volume*, 339: 187p. **Edited volume.**

[2] Dambreville A., **Meyer-Berthaud B**., Barczi J.-F., Decombeix A.-L., Griffon S. & Rey H. Accepted. Using architecture modeling of the Devonian tree *Pseudosporochnus* to compute its biomass. In Krings M., Harper C.J., Cúneo N.R., Rothwell G.W. (eds), Transformative Paleobotany: Papers to Commemorate the Life and Legacy of Thomas N. Taylor. Elsevier.

[3] Cascales-Miñana B., **Meyer-Berthaud B**. 2015. Diversity patterns of the vascular plant group Zosterophyllopsida in relation to Devonian paleogeography. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 423: 53-61

[4] **Meyer-Berthaud B**., Decombeix A-L. 2012. In the shade of the oldest forest. *Nature*. 483: 41-42.

[5] Le Hir G., Donnadieu Y., Goddéris Y., **Meyer-Berthaud B**., Ramstein G., Blakey R. 2011. The climate change caused by the land plant invasion in the Devonian. *Earth and Planetary Science Letters*, 310: 203-212.

[6] Soria A. & **Meyer-Berthaud B**., 2004. Tree-fern growth strategy in the Late Devonian cladoxylopsid species *Pietzschia levis* from the study of its stem and root system. *American Journal of Botany* 91: 10-23.

[7] Gerrienne P, **Meyer-Berthaud B**., Fairon-Demaret M., Streel M. & Steemans P., 2004. *Runcaria*, a Middle Devonian seed plant precursor. *Science* 306: 856-858

[8] **Meyer-Berthaud B**., Scheckler S.E. & Wendt J. 1999. *Archaeopteris*, the earliest known modern tree. *Nature* 398: 700-701.

[9] **Meyer-Berthaud B**., Taylor T.N. & Taylor E.L., 1993. Petrified stems bearing *Dicroidium* leaves from the Triassic of Antarctica. *Palaeontology* 36: 337-356

[10] **Meyer-Berthaud B**., 1989 - First gymnosperm fructifications with trilete prepollen. *Palaeontographica B*, 211: 87-112.

CURRICULUM VITAE

2017

Brigitte MEYER-BERTHAUD
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Directeur de Recherche CNRS (DR2) / CNRS Senior Research Scientist
UMR 5120 AMAP Montpellier
BotAnique et Modélisation de l'Architecture des Plantes et des végétations

PERSONAL INFORMATION

- Birth date: April 24, 1956
- Nationality : French
- Professional address : Unité Mixte de Recherche "botAnique et Modélisation de l'Architecture des Plantes et des végétations" (AMAP - UMR 5120 CNRS), % Cirad, TA-A51/PS2, Boulevard de la Lironde, F- 34398 Montpellier Cedex 5.

TITLES & DIPLOMAS

- **1987: Thèse d'Etat ès Sciences (Habilitation)**, Montpellier 2 University. Advisor Jean Galtier.

  "*Contribution à l'étude des Gymnospermes du Carbonifère inférieur d'Europe*" [Contribution to the study of European Early Carboniferous gymnosperms]

- **1981: Thèse de 3ème cycle (PhD)**, Montpellier 2 University. Advisor Jean Galtier.

  "*Les Lycophytes à structure anatomique conservée du Carbonifère basal de la Montagne Noire – Leur place dans l'évolution du groupe*" [The anatomically preserved lycopsids of the Early Carboniferous of Montagne Noire – Their place in the evolution of the group]

- **1979: DEA (Master)**"Evolution and Biosystematics", Montpellier 2 University.

EMPLOYEMENT & CAREER

01/01/2001- present : AMAP - botAnique et bioInforMatique de l'Architecture des Plantes, Montpellier
- 01/10/2005: Directeur de Recherche CNRS [Senior CNRS Research Scientist]

01/10/1982 - 31/12/2000 : Institut des Sciences de l'Evolution, Montpellier.
- 01/10/1986 : Chargée de Recherche 1 CNRS [CNRS Research Scientist 1]
- 01/01/1985 : Chargée de Recherche 2 CNRS [CNRS Research Scientist 2]
- 01/10/1982 : Attachée de Recherche CNRS [CNRS Research Assistant]

RESEARCH ACTIVITIES

Research themes

- Contribution to the study of plant terrestrialization during the Paleozoic: modalities and dynamics of systematic, morphological, and anatomical diversification. Gondwanan floras.

- Diversification of vascular plants in the Middle and Upper Paleozoic (Devonian and Carboniferous): Developmental innovations / constraints. First trees. Reproductive systems.
- Evolution of lignophytes (progymnosperms & first seed plants) and basal ferns
- Distribution of taxa, palaeogeography, and palaeoclimates.
- Paleoecophysiology of fossil plants: modeling of hydraulic properties

Publications: 83 papers and over 110 talks at scientific meetings. See details p. 8.

Funded projects and collaborations

- 2017-2019: co-PI, "*Biotic responses of faunas and floras to abiotic changes in deep time*", funded by LABEX CEMEB. (co-PI Catherine Girard, Institut des Sciences de l'Evolution de Montpellier).
- 2016: participant, "*Modeling the hydraulic conductivity of the first woody trees*", funded by CNRS-INEE (PI Anne-Laure Decombeix, AMAP).
- 2011-2015: PI, "*Global perspectives on the terrestrialization process* ", funded by Agence Nationale de la Recherche (ANR). (link)
- 2013-2015: participant, "*Middle Palaeozoic vertebrate biogeography, palaeogeography, and climate*" funded by I.G.C.P. 596. PIs Zhu Min, Chinese Academy of Sciences, Beijing, and G. Young, Australian National University, Canberra.
- 2006-2010: co-PI, "*Accidents in Climate Carbon – cycle Regulation of the Earth",* funded by Agence Nationale de la Recherche (ANR). PI Gilles Ramstein, LSCE, Gif-sur-Yvette (link)
- 2006- 2007; 2008-2009: participant, *"The terrestrialization process: modeling complex interactions at the biosphere-geosphere interface "*, funded by CNRS-INSU program Eclipse II. PI Marco Vecoli, Laboratoire de Paléontologie et Paléogéographie du Paléozoïque, Université de Lille 1.
- 2003-2006: participant, *"Middle Palaeozoic vertebrate biogeography, palaeogeography, and climate"*, funded by I.G.C.P. 491. PIs Zhu Min, Chinese Academy of Sciences, Beijing, and G. Young, Australian National University, Canberra.
- 2003- 2004: co-PI, *"Plants and vertebrates to test Devonian paleogeography"* funded by DRI CNRS and French Embassy in Australia. Co-PI G. Young, Univ. Canberra, Australia.
- 1999- 2000: co-PI, "*Plant assemblages of the Lower Devonian of Morocco (North Gondwana) - taxonomic implications "* funded jointly by C.N.R.S. /C.G.R.I.- F.N.R.S. Co PI P. Gerrienne (Univ. Liège, Belgique)
- 1997-2002: participant, *"North Gondwana Mid-Palaeozoic Bioevent/Biogeography patterns in relation to crustal dynamic"*, funded by I.G.C.P. 421. PIs R. Feist, ISEM, Montpellier, and J. Talent, Macquarie University, Australia.
- 1987-1988: participant, project (INT-8914710) on the diversification of Calamopityaceae (Early Carboniferous seed plants), funded jointly by C.N.R.S. and N.S.F. PIs J. Galtier, Montpellier and C.B. Beck, Ann Arbor, Univ. Michigan.
- 1983-1987 and 1992: participant in 4 projects on European assemblages of Lower Carboniferous plants, jointly led by A.C. Scott (London Univ.) and J. Galtier (Montpellier), funded by grants from:
  * OTAN (n°RG361/83): 1983-1986;
  * "Action Incitative Europe, C.N.R.S.": 1985-1987;
  * OTAN (n° 0036/87): 1987;
  * "Alliance" (joint programm of the Foreign Affairs and Education & Research ministries)

- *Other collaborations*
  * J. Wilson, Haverford College, Pennsylvania, USA.
  * J. Talent, Ruth Mawson, Macquarie University, Australie.

* J. Wendt, Dieter Korn, Christian Klug, Martin Rücklin, Geologisch-Paläontologisches Institut, Université de Tübingen, Allemagne.
* Gaël Clément, Museum National d'Histoire Naturelle, Paris.
* S. Régnault, Muséum d'histoire naturelle, Nantes.
* S. E. Scheckler, Botany Department, Virginia Polytechnic Institute and State University, USA.

Postdoc grants

- Dec. 1988-Aug. 1990: Ohio State University fellowship, Department of Plant Biology & Byrd Polar Research Center, Ohio State University, Columbus, USA (dir: Prof. T.N. Taylor).
- Jan.-Sept. 1982: British Council scholarship, University of London: Bedford College (dir: Prof. W.G. Chaloner) & Chelsea College (dir: Dr. A.C. Scott).

Fieldwork abroad

- 2013: Australia, Devonian (New South Wales). With Anne-Laure Decombeix (AMAP). Collaborations: G. Young (ANU Canberra).
- 2013: Morocco, Devonian and Early Carboniferous of Anti-Atlas. With Anne-Laure Decombeix (AMAP), in the context of the International Field Symposium « The Devonian and Lower Carboniferous of Gondwana » organized by El Hassani, Becker & Tahiri (Institut scientifique, Rabat).
- 2008: Australia, Devonian and Early Carboniferous (Quensland). With Anne-Laure Decombeix (AMAP). Collaborations: J. Talent and R. Mawson (Macquarie University, Sydney) and F. Hueber (Smithsonian Museum, Washington).
- 2007: Morocco, Devonian. Collaborations: M. Rucklin (Tubingen), G. Clément (Museum, Paris), P. Gerrienne (Liège).
- 2006: China, Middle Devonian (Xinjiang). Collaborations: Li C-S. (Chinese Academy of Sciences), P. Gerrienne and P. Steemans (Liège).
- 2005: Australia, Devonian and Early Carboniferous (Quensland). With Jean Galtier and Anne-Laure Decombeix (AMAP). Collaborations: J. Talent and R. Mawson (Macquarie University, Sydney) and F. Hueber (Smithsonian Museum, Washington).
- 2003 & 2004: Australia, Early Carboniferous (New South Wales). Collaborations: G. Young (ANU Canberra) and P. Gerrienne in 2004.
- 2002, 2001, 1999, 1998, 1996: Morocco, Devonian. Collaborations: R. Feist (Montpellier), J. Wendt, D. Korn, C. Klug, M. Rucklin (Tubingen), S.E. Scheckler (Blacksburg-Va, USA), P. Gerrienne (Liège).
- 1994-95: Germany (Sauerland and Thuringia), Early Carboniferous. Collaboration: N.P. Rowe (Montpellier) and D. Korn (Tubingen).
- 1989, 1993: Antarctica, South Victoria Land, Permian and Triassic. Collaboration: T.N. Taylor, E.L. Taylor (Columbus-OH, USA).
- 1983-84 & 86-87: Scotland, Early Carboniferous. Collaboration: A.C. Scott (London), J. Galtier (Montpellier).

Meetings and symposia organized

- 2017: co-organiser *meeting Agora Paleobotanica*, Montpellier. July 10-12. With A.-L. Decombeix, Jean Galtier, Giovanni Scanu. Co-funded by Labex Cemeb.
- 2015: co-organiser, *meeting Agora Paleobotanica*. July 6-9. Autun.

- 2014: co-organizer of the *final meeting of project ANR Terres*. November 26-27. Paris Jussieu. With G. Clément and Th. Servais
- 2014: co-organiser of the *symposium "The terrestrialisation process in the Palaeozoic: colonization of land plants of the continents and impact on the bio/geosphere*", 9th European Palaeobotany and Palynology Conference. August 26-31, Padova. With Th. Servais and M. Vecoli
- 2011: organizer, *Project ANR Terres workshop*. September 13-14, Montpellier.
- 2009: co-organiser, *symposium "Global changes in the Palaeozoic: carbon cycle, glaciations, and the terrestrialization process*", European Geosciences Union 2009. April 19-24, Vienna. With M. Vecoli
- 2008: co-organiser, *symposium "Past vegetation of Australasia"*, XIIIth International Organization of Paleobotany Conference. Aug 30 –Sept 6, Bonn. With S. McLoughlin,
- 2006: co-organiser, *symposium "Ferns and lignophytes in Paleozoic landscapes"*, 7th European Paleobotany-Palynology Conference, Sept 6-11, Prague. With J. Galtier,
- 2006: co-organiser, *international meeting "A life of ferns and gymnosperms"* (sponsored by the Linnean Society, Groupe Français du Paléozoïque, Organisation Francophone de Paléobotanique). April 6-8, Montpellier. With J. Galtier, N. Rowe and A-L. Decombeix,
- 2003: co-organiser, *13ème Colloque de l'Organisation Française de Paléobotanique*. June 6-8, Nantes. With S. Régnault and Ph. Gerrienne ,
- 1999: co-organiser *symposium "*Archaeopteris*, the world's first forest tree"*, XVI International Botanical Congress. Saint Louis, Missouri. With S.E. Scheckler,
- 1995: organiser, *6ème Colloque de l'Organisation Française de Paléobotanique*. May 22-23, Montpellier.

Awards:

- 2006: Prix Paul Bertrand, G. Deflandre et M. Deflandre-Rigaud, Jean Cuvillier; Académie des Sciences (Sciences de l'Univers).
- 1997: Michael Cichan Award; Botanical Society of America.

ADVISING

Postdoctoral fellows

- Borja Cascales-Miñana. April 2012-April 2015.
- Cyrille Prestianni. Oct. 2009-June 2010.

PhD students (co-)advised

- Cyrille Prestianni, 2006-2009. Université de Liège. (co-advisor, 30%, with P. Gerrienne)
- Anne-Laure Decombeix, 2004-2007. Université de Montpellier (main advisor, 50%, with J. Galtier)
- Aude Soria, 2000- 2003. Université de Montpellier (min advisor 100 %)
- Véronique Daviero, 1994-1997. Université de Montpellier (main advisor 80%)

Master students (co-)advised

- A. Champreux, 2017.
- M. Tanrattana, 2016.
- P.-E. Dieudonné, 2013.
- M. Evreinoff, 2012.
- A. Dambreville, 2009.
- R. Blanchard, 2007, 2008.
- A.-L. Decombeix, 2004.

- X. Ermacora, 2004.
- S. Nabos, 2003.
- A. Soria, 2000.
- J.-L. Bousquet, 1998.
- S. Vally, 1998.
- J. Prieto, 1997.
- T. Courtes, 1994.
- V. Daviero, 1993.
- N. Acherki, 1993.

TEACHING

Note that teaching is done in addition to BMB's current position, which is research-only. It is thus limited to a few hours per year in the following classes:

- 2005-2017: "History of plants and natural environments", undergraduate, enrollment 80-100, 7-14hrs/year.
- 2005-2016 : "Paleobiodiversity-paleogeography" and "stage de paléontologie", graduate, enrollment 10-20, 9-20 hrs/year
- 2005-2009: "Paleoenvironments and plant evolution" graduate, enrollement 10-20, 18 hrs/year.
- 1990-2004: Master in Paleontology, option Paleobotany : labs and field work, graduate, enrollment 10-20, 8-15hrs/year
- 1990-2000: Master Population and Ecosystem biology: labs, group work and field work in paleoecology, graduate, enrollment 20-30, 12-15 hrs/year

SERVICE TO THE DEPARTMENT & UNIVERSITY

University committees

- 2017-2021: elected, committee of experts[1] in Ecology & Evolution, Université de Montpellier.
- 2016-2019: elected to the Advisory Board, Scientific Department "Biology, Ecology, Evolution, Environment and Earth Sciences", Université de Montpellier.
- 2008: elected to the Department Council, Department of Evolutionary Biology and Ecology, Université de Montpellier.
- 2001-2004: committee of experts[1] in Ecology & Evolution, Université Lyon1.
- 1999-2003 : Conseil National des Universités committee in Organismal Biology.
- 1995-2005: committee of experts[1] in Ecology & Evolution, Université de Montpellier (vice-chair 2001-2004; assessor 2004-2005).
- 1994-1998: elected to the Department Council, Department of Evolutionary Biology and Ecology, Université de Montpellier

Graduate school committees

- 2016-17 : Jury member for the selection of Ministry of Research PhD grant recipients, graduate school GAIA
- 2007-2010 : Council member, graduate school SIBAGHE

[1] *Equivalent to a permanent search & promotion committee*

- 2007- 2008 : Jury member for the selection of Ministry of Research PhD grant recipients, graduate school SIBAGHE
- 2004 : Jury member for the selection of Ministry of Research PhD grant recipients, graduate school BSIAE

Own department committees

- 2015- : Leader with Jérôme Munzinger of the team Taxon and the research theme Biodiversity, UMR AMAP.
- 2015- : Leader Paleobiodiversity group, UMR AMAP.
- 2015- : Member of the Department Council, UMR AMAP.
- 2011-2014: Leader of the Paleobotany theme, UMR AMAP; Department Council member, UMR AMAP.
- 2000-2010: Leader of the team "Evolution of shape and functions, systematics, floristic" UMR AMAP; Department Council member, UMR AMAP.
- 1994-96 et 1999-2000: Elected to the Department Council, Institut des Sciences de l'Evolution.
- 1991-1996: In charge of the photography service, Institut des Sciences de l'Evolution.

SCIENTIFIC EXPERTISE

- **Evaluation committee member** for the department "Paleobiodiversity & Paleoenvironments", MNHN Paris (25-26/03/08)
- **Jury member** for 4 Habilitation defenses and 13 PhD defenses (4 abroad)
- **Advisory committee member** for 18 PhD students in the past 10 years, two outside Montpellier (Paris & Liège).
- **Hiring committee member** for 5 Full Professor positions, 2 Assistant professor positions, 3 Engineer positions
- **Reviewer for funding agencies:** Eclipse/CNRS (2001-2006), Czech Republic Academy of Science (2006), NSF (2014), INSU Terre Vivante-Interrvie (2009-2014).
- **Reviewer for journals:** *Nature; Proceedings of the Royal Society of London; New Phytologist; Plos One; E-life; American Journal of Botany; International Journal of Plant Sciences; Geology; Palaeogeography, Palaeoclimatology, Palaeoecology; Review of Palaeobotany and Palynology; Palaios; Palaeoworld; Earth and Environmental science Transactions of the Royal Society of Edinburgh; Journal of African Earth Sciences; Journal of Systematic Paleontology; IAWA Journal; Historical Biology; Geological Journal; Geobios; Geodiversitas; Ameghiniana; CR Palevol; Bulletin de la Société Géologique de France; Annales de Paléontologie***.**
- 2009-2012: member, committee on research directions, INSU-Earth Science division (coordinated by Th. Servais & K. Benzerara)
- 2008: member, working group "Paléoenvironments", INSU-Earth Science division (coordinated by D-D. Rousseau)

Professional organisations

- 1988 - 2014: Secretary for Southern Europe of International Organization of Paleobotany (IOP).

- Secretary (1992-1996), deputy (2001-2004), and president (2005-2008) of Organisation Française de Paléobotanique (OFP).
- 1984-1987: in charge of the French Bibliography of Paleobotany (for OFP and IOP).
- Member of: Agora Paleobotanica (ex. Organisation Française de Paléobotanique), Association Paléontologique Française, Botanical Society of America, Groupe Français du Paléozoïque, International Organization of Paleobotany.

OUTREACH

- 2017: expert for the journals Science and Scientific American.
- 2017: coordination of a field trip (Carboniferous fossil plants from Graissessac, Hérault) for Université du temps libre, Perpignan.
- 2013 & 2014: presentation of paleobotanical research to high school students (1 day/year).
- 2007 & 2008: talks in high school classes at Lycée G. Pompidou (Castelnau-Le-Lez): 3hrs/year
- 2006-2007: advisor for high school projects, Lycée Agropolis (Montpellier)
- 2000 : participant in the exhibit "La Serre, jardin du futur. Modélisation des Plantes". La Villette, Paris.
- 1999: participant in the exhibit " Le Maroc - Mémoire de la terre". Museum National d'Histoire Naturelle de Paris.
- 1998: participant in the museum project "Nature et Paysages" in Turin (Italy).
- 1997-1998: Presentation of the project of a science museum in Montpellier at the exhibit "Trésors de Sciences" (Agropolis Museum).

BIBLIOGRAPHY

PAPERS

Students and postdocs advised by BMB at the time of the project are underlined.

1. Chaloner W.G. & **Meyer-Berthaud B.**, 1983 - Leaf and stem growth in the Lepidodendrales. *Bot. J. Lin. Soc.*, 86: 135-148.

2. **Meyer-Berthaud B.**, 1984 - Les axes de Lycophytes à structure conservée du Carbonifère basal (Tournaisien) de la Montagne Noire: *Trabicaulis gen.nov.* et *Landeyrodendron gen.nov. Palaeontographica B*, 190: 1-36.

3. **Meyer-Berthaud B.**, 1984 – *Stenomyelon* from the upper Tournaisian of the Montagne Noire (France). *Can. J. Bot.*, 62: 2297-2307.

4. Galtier J., Holmes J. & **Meyer-Berthaud B.**, 1985 - Sur la morphologie végétative d'une ptéridospermale du Stéphanien de Graissessac. *Act. 110° Congr. Nat. Soc. Sav.*, Montpellier, Sciences, 5: 45-53.

5. Scott A.C. & **Meyer-Berthaud B.**, 1985 - Plants from the Dinantian of Foulden, Berwickshire, Scotland. *Trans. R. Soc. Edinburgh*, Earth Sci., 76: 13-20.

6. **Meyer-Berthaud B.**, 1986 - *Melissiotheca* : a new pteridosperm pollen organ from the Lower Carboniferous of Scotland. *Bot. J. Lin. Soc.*, 93: 277-290.

7. **Meyer-Berthaud B**. & Galtier J., 1986 - Studies on a Lower Carboniferous flora from Kingswood near Pettycur, Scotland. II. *Phacelotheca*, a new synangiate fructification of pteridospermous affinities. *Rev. Palaeobot. Palynol.*, 48: 181-198.

8. **Meyer-Berthaud B**. & Galtier J., 1986 - Une nouvelle fructification du carbonifère inférieur d'Ecosse: *Burnitheca* , Filicinée ou Pteridospermales ? *C.R. Acad. Sci. Paris*, Série II, 303: 1263-1268.

9. Scott A.C., **Meyer-Berthaud B.**, Galtier J., Rex G.M., Brindley S.A. & Clayton G. , 1986 - Studies on a new Lower Carboniferous flora from Kingswood near Pettycur, Scotland. I. Preliminary report. *Rev. Palaeobot. Palynol.*, 48: 161-180.

10. Galtier J., Feist R., **Meyer-Berthaud B.**, Rex G. & Rowe N.P., 1987 - Découverte d'une flore en compression dans les niveaux à lydiennes du Tournaisien de la Montagne Noire (Hérault, France). *C.R. Acad. Sci. Paris*, Série II, 305: 647-651.

11. Galtier J., **Meyer-Berthaud B**. & Rowe N.P., 1988 - Tournaisian plants from the "lydiennes" formation of the Montagne Noire (France). *Cour. Forsch. Inst. Senckenberg*, 100: 109-111.

12. Galtier J. & **Meyer-Berthaud B.**, 1989 - Studies of early Carboniferous pteridosperm *Calamopitys*. A redescription of the type material from Saalfeld (GDR). *Palaeontographica B*, 213: 1-36.

13. **Meyer-Berthaud B.**, 1989 - First gymnosperm fructifications with trilete prepollen. *Palaeontographica B*, 211: 87-112.

14. **Meyer-Berthaud B**., 1990 - Studies on a Lower Carboniferous flora from Kingswood near Pettycur, Scotland. III. *Lyginorachis*. *Rev. Palaeobot. Palynol.*, 63: 77-90.

15. **Meyer-Berthaud B**. & Taylor T.N., 1991 - A probable conifer with podocarpacean affinities from the Triassic of Antarctica. *Rev. Palaeobot. Palynol.*, 67: 179-198.

16. Isbell J.L., Taylor T.N., Taylor E.L., Cuneo N.R. & **Meyer-Berthaud B**., 1992 - Depositional setting of Permian and Triassic fossil plants in the Allan Hills, Southern Victoria Land. *Antarct. J. US.*, 35: 22.

17. **Meyer-Berthaud B**. & Taylor T.N., 1992 - Permineralized conifer axes from the Triassic of Antarctica. *Cour. Forsch. -Inst. Senckenberg*, 147: 191-197.

18. **Meyer-Berthaud B**., Taylor E.L. & Taylor T.N., 1992 - Reconstructing the Gondwana seed fern *Dicroidium* : evidence from the Triassic of Antarctica. *Geobios*, 25(3): 341-344.

19. Taylor T.N., Taylor E.L., **Meyer-Berthaud B**., Isbell J.L. & Cuneo N.R., 1992 - Triassic osmundaceous ferns from the Allan Hills, Southern Victoria Land. *Antarct. J. US.*, 35: 18-19.

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21. Brown R. & **Meyer-Berthaud B**., 1993 - Permineralized frond remains of gymnosperms from the Dinantian of East Kirkton, Scotland. *Palaeontology*, Spec. Pap., 49: 43-55.

22. Galtier J., **Meyer-Berthaud B**. & Beck C.B., 1993 - Large *Calamopitys* stems from the Tournaisian of France, with the description of a new species, *C. schweitzeri* n. sp. *Palaeontographica*, 230B: 59-79.

23. **Meyer-Berthaud B**., Taylor T.N. & Taylor E.L., 1993 - Petrified stems bearing *Dicroidium* leaves from the Triassic of Antarctica. *Palaeontology*, 36(2): 337-356.

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25. **Meyer-Berthaud B**. & Stein W.E., 1995 - A reinvestigation of *Stenomyelon* from the late Tournaisian of Scotland. *Int. J. Plant Sci.*, 156(6): 863-895.

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29. **Meyer-Berthaud B**. & Rowe N., 1997 - A Lower Carboniferous plant assemblage from Thuringia (Germany): compressions. *Rev. Palaeobot. Palynol.*, 97: 361-379.

30. **Meyer-Berthaud B**., Wendt, J. & Galtier J., 1997 - First record of a large *Callixylon* trunk from the Late Devonian of Gondwana. *Geol. Mag.*, 134: 847-853.

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34. **Meyer-Berthaud B.,** 1999 - Earliest forests. *2000 Yearbook of Science & Technology*, Encyclopedia of Science & Technology, McGraw-Hill, New York, p. 173-175.

35. **Meyer-Berthaud B**., Scheckler S.E. & Wendt J. 1999 - *Archaeopteris*, the earliest known modern tree. *Nature*, 398: 700-701.

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37. **Meyer-Berthaud B**., 2000 - Premiers arbres. Le modèle *Archaeopteris*. *Journal de la Société de Biologie*, 194(2): 65-70.

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84. Decombeix A-L., Meyer-Berthaud B., Evreinoff M., 2012. Diversity of Late Devonian plants in Australia: contribution of the permineralized assemblage of Barraba, NSW. **IPC XIII / IOPC IX** Tokyo 23-30 août 2012.

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SEMINARS

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2. Meyer-Berthaud B. (1999) - Plantes du Paléozoïque marocain: développement, innovations évolutives et succès écologique. "Réunions du mardi". Institut des Sciences de l'Evolution de Montpellier (UMR 5554) (february 99).

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7. Meyer-Berthaud B. (2006) - Evolution des fougères et des gymnospermes: une perspective dévonienne (-400 à -360 millions d'années). Séminaire du laboratoire Génôme Population Interactions et Adaptation, Université Montpellier 2 (octobre 2006).

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12. Meyer-Berthaud B. (2014) – Plants, CO2 and climate in the Devonian: modeling approaches. Paläontologisches Institut und Museum. Universität Zürich (mai 2014).

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+33467617552
anne-laure.decombeix@cirad.fr

Montpellier, March 8, 2018.

Dear Committee Members,

It is with much enthusiasm that I am writing this letter to support the nomination of Dr Brigitte Meyer-Berthaud as a Corresponding Member of the Botanical Society of America.

Dr Meyer-Berthaud has been my advisor for both my second year of Master (2003-2004) and my PhD (2003-2007). After my postdoc, I joined the same department than her as a permanent CNRS researcher in 2011. Since then, we have worked on various joint projects, conducted fieldwork together and co-supervised several students. It is on the basis of these various experiences as her student and as her junior colleague and our continuously fruitful and very friendly collaboration that I highly support her nomination for this award.

Dr Meyer-Berthaud is an internationally recognized paleobotanist who has made major contributions to the field in the last 40 years. The impact and quality of her work are reflected by the >80 publications and book chapters she has authored, including in major journals, numerous invited and contributed talks at international meetings, funding received though various French and foreign agencies, awards, as well as her election or appointment to leadership and advisory roles in her department, university, and professional societies. In the following paragraphs, I want to highlight more specifically (1) her significant and innovative scientific contributions to paleobotany and plant science in general, and (2) her commitment to the advance of the field through mentoring and international collaborations.

Dr Meyer-Berthaud is one of the world's leading experts in Devonian-Early Carboniferous vascular plant diversity and biology. She has especially contributed to a better understanding of the oldest known trees and of some of the first seed plants, their affinities, their distribution, and their interactions with their environment. Her work is based on classic morpho-anatomical studies that she always carries on with the greatest attention to details, whether it's the observation of a plant's tissues on a thin-section or the meticulous "dégagement" of a compression fossil from the rock matrix with a small needle to reveal its complete morphology. Dr Meyer-Berthaud is also an enthusiast field paleobotanist who has collected fossil plants on all continents, including Antarctica. I have participated in 3 collecting trips to Australia with her in 2005, 2008, and 2013, and each trip was a great experience and a success in terms both of organization and of fossil finds. This aspect of our discipline is very important to increase the amount of fossil from poorly known time periods and/or geographic regions and Dr Meyer-Berthaud's fieldwork has led to significant discoveries about Devonian and Carboniferous floras in key localities, particularly in Australia and Morocco.

In addition to her mastering of these "classic" approaches in paleobotany, Dr Meyer-Berthaud is also at the origin of several pioneering studies aiming to reconstruct the biological properties of fossil plants. In 2001, she moved from Institut des Sciences de l'Evolution, to a new department, AMAP (botAnique et bioInforMatique de l'Architecture des Plantes), which offered greater opportunities for collaborations with (neo)botanists and researchers working on plant modelling. In this new scientific environment, she has continuously advocated for interactions between neobotanist, paleobotanists, and modellers and several very original projects have resulted from her initiatives. The first studies focused on the architectural modelling of fossil plants including some of the oldest trees. More recently, we have worked together with botanists and computer scientists from the department to model (i) the biomass of a Devonian fossil tree at different stages in its development and (ii) the hydraulic properties of Devonian wood though the implementation of a new tissue-scale model. These two projects, which were initiated by Dr Meyer-Berthaud, are very good examples of her curiosity and collaborative approach to science: informal discussions with colleagues working on the modelling of extant plant properties led to pioneering studies that included the joint supervision of graduate students who acquired a multidisciplinary appreciation of botany.

As I mentioned before, another major aspect of Dr Meyer-Berthaud's achievements is her contribution to paleobotany and plant science through mentoring and collaboration. Since I started as her student 14 years ago, I have constantly benefited from her incredible support and I have witnessed her great generosity towards everyone around her. She is always willing to share her experience and knowledge and to provide resources and networking opportunities to more junior scientists. Her advice and support have helped the career of many: her own students, some of whom are now like me paleobotanists themselves, but also other students and colleagues from a variety of disciplines and countries. Dr Meyer-Berthaud is indeed also a fervent advocate of international exchanges and collaborations. She has for example collaborated and participated in funded projects with colleagues from Belgium, Germany, UK, USA, Australia, China, and Russia. She participates actively in several national and international professional societies, including the Botanical Society of America of which she has been a member for 32 years. Dr Meyer-Berthaud is very passionate about her research and also shares it through outreach activities and lectures that she is giving at the university in addition to her research position.

Dr Meyer-Berthaud's approachability, generosity, and open mindedness combined with her scientific rigor and remarkable achievements make her an outstanding role model. Her commitment to her field and her leadership will have a lasting impact on our community and make her an ideal candidate for a BSA corresponding membership. Thank you very much for considering her nomination!

Yours sincerely,

Anne-Laure Decombeix

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February 10, 2018

Dr. Tom A. Ranker, Chair
Corresponding Members Committee, BSA
University of Hawai‘i at Mānoa
Mānoa, Hawaii

Dear Tom,

It is a distinct pleasure for me to support the nomination of Dr. Brigitte Meyer-Berthaud, Directeur de Recherche CNRS and CNRS Senior Research Scientist at the UMR 5120 AMAP, Montpellier, France, for Corresponding Membership in the Botanical Society of America. Dr. Meyer-Berthaud has been a prominent paleobotanist in the international arena since the late 1970s. During the ensuing 40 years I have worked with Brigitte in field collecting (including three weeks in Antarctica), participated with her in international meetings and in the organization of symposia, and collaborated with her in the development of paleobotanical activities for scientific organizations worldwide.

Dr. Meyer-Berthaud has an impressive record of contributions to international professional meetings, particularly in the Paleobotanical Section of BSA, the biannual European Congresses of Palaeobotany and Palynology, and in quadrennial International Organisation of Palaeobotany Conferences. She has organized more than 10 symposia at international meetings, including the International Botanical Congress (1999), Linnean Society of London (2006), European Palaeobotany and Palynology Conferences (2006, 2014), International Organization of Paleobotany Conferences (2008, 2012), European Geosciences Union (2009), and Agora Paleobotanica (2011, 2017). She has contributed to the development of national and international scientific organizations through her service as Editor of the French Bibliography of Paleobotany,

and Secretary for Southern Europe Region of the International Organization of Paleobotany (1988-2014).

Brigitte is a widely recognized authority in several areas of plant paleontology, and has pioneered several innovative avenues of research. These include plant terrestrialization during the Paleozoic, Gondwanan floras, diversification of vascular plants in the Middle and Upper Paleozoic (Devonian and Carboniferous), developmental innovations and constraints leading to evolution of the first trees, evolution of reproductive systems, evolution of the first seed plants, paleoecophysiology of fossil plants, and modeling the hydraulic conductivity of the first woody trees. Her work has been discriminated through more than 80 peer reviewed research papers in journals of international stature, and more than 110 presentations at international meetings (including several at annual BSA meetings)

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Brigitte Meyer-Berthaud is a botanist and paleobotanist of exceptional stature, with an impressive record of scholarship, and service to professional organizations. She has a long-standing record of active participation in BSA activities, which makes her an excellent choice for Corresponding Membership. I strongly urge you to support Brigitte's nomination for Corresponding Member of the Botanical Society of America.

Sincerely,

Gar W. Rothwell
Distinguished Professor

and

Courtesy Professor of Botany and Plant Pathology
Oregon State University

THE UNIVERSITY OF KANSAS
College of Liberal Arts & Sciences

Dr. Edith L. Taylor
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March 13, 2018

Dr. Andrew Leslie
Secretary-Treasurer
BSA Paleobotanical Section

Dear Andrew:

This is a letter of support for your nomination of Dr. Brigitte Meyer-Berthaud to be a corresponding member of the BSA. I am pleased to be able to write for Brigitte as I have known her and her work for more than 30 years; she was a post-doctoral fellow in our laboratory at Ohio State immediately after finishing her second doctoral degree (Habilitation) in 1988-1989. We published several papers together in the early 1990s and she was twice a member of my field teams in Antarctica. I have followed her career closely throughout her career and cannot think of anyone in paleobotany more deserving to be a corresponding member in the BSA.

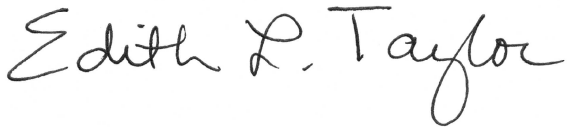
Dr. Meyer-Berthaud's career has been characterized by the breadth, quantity, and quality of her publications. Her publications have been in the best journals in her field and in botany, but also in prestigious journals that reach broader audiences, including the *Journal of the Geological Society of London* and *Nature*. She is not known only for her publications, however, but also for her presentations at international meetings and for her leadership in various types of international research projects. These projects are not just in paleobotany, but in more recent years, in the broader fields of paleontology and plant-ecosystem evolution. In addition, she is a phenomenal field scientist and has led field expeditions all over the world, including places where it is unusual for women to lead field work, e.g., in Morocco.

Dr. Meyer-Berthaud is known for her work on Devonian and Early Carboniferous floras, time periods in which land plants became more complex and when multi-layered forest ecosystems first began to appear. She began this work by describing the plants present, including some of the earliest seed plants, but soon expanded her focus to include the development, growth and architecture of the earliest arborescent plants. She has studied the importance of the tree habit and its effect on early ecosystems. The development of arborescence and the complex root systems produced by trees had a profound effect on the depositional environments in which the fossils are found as well as the climate of the period, and Brigitte has addressed all of these factors in her work. Brigitte started her research career working on anatomically preserved fossil plants, so she has extensive training in plant anatomy, but she has applied that training to answer a broad array of questions on how plants were able to invade the land and thrive in that hostile environment.

In summary, Dr. Meyer-Berthaud is a world-renowned and respected senior scientist who is very deserving of being a corresponding member of BSA. She has collaborated with scientists all over the world, both in paleobotany and in associated fields, and continues to produce detailed and important research. I can recommend her most highly for this honor.

If you need anything further, please let me know.

Sincerely,



Edith L. Taylor
Professor and Senior Curator in Paleobotany
EEB Department and Biodiversity Institute

Workdone in Brief (1987-2017)

Prof. (Dr.) V.N.Pandey

1. **Research papers** -106
2. **Seven book published**
3. **Edited research**:07 (Edited abstracts of six National conferences/symposia)
4. Sixteen Training/Orientation/refresher courses
5. Sixty five seminars/symposia/workshop including 5 abroad.
6. Teaching experience: 30 years
7. Research Experience: 34 Years. Member of Editorial Board of reputed journal
8. **Academic Visits Abroad-**
    1. Dublin, **Ireland** (10-18, Sep. 1994).
    2. Kathmandu, **Nepal** (23-30 April, 1993)
    3. Norwich and London,**UK** (25-28 June, 1995)
    4. Bangkok, **Thailand** (03-07, July, 1995).
    5. Toronto, **Canada** (06-11, Nov. 1995).
    6. Savannah, **Georgia**, **USA**(25 Jul-10 Aug, 2016)
9. **Research Guidance-**

:	Guided Ph.D. Students	16
:	Guided P.G. Dissertations	27
	Guided P.G. Projects	232
:	Guiding Ph.D. Students	08
:	Women Scientist	03

10. **Corporate Activities-**
    1. **Coordinator**,Green Herbal Health Centre Yojana.
    2. **Co-Incharge / Incharge**-Botanic Garden and Herbarium,
    3. **Program Officer** (NSS),
    4. **Member** of Flying Squad,
    5. **Asst. Superintendent**Exams**.,**
    6. **Asst. Coordinator** IGNOU;
    7. **Counsello**r IGNOU & UPRajarshi Tandon Open University;
    8. **Counting / ElectionOfficer** Student Union,
    9. Member of Convocation Pandal Committee;
    10. **Technical Coordinator**/**Coordinator** Refresher courses 2004, 07, 08, 09,11,12; short term course,2012,
    11. **Member**, Council of Science faculty;
    12. **Convener of different committees**,
    13. **Member, Waste Management Facility Cell**
    14. **Convener, admission Committee 2015**
    15. **Convener, admission Committee 2016**
    16. **Poling Officer Student Union, 2016**

17. **Executive Councilor-**
    : DDU Gorakhpur University, Gorakhpur
    : **Indian Botanical Society (IBS)**
    : **Swadeshi Science Movement of India**, New Delhi
    : Indian Association of Angiosperm Taxonomy
18. **Book Published-**
    : Published-05
    : In process -02
19. **Projects Handled-**
    : Completed -06
    : Ongoing-04
20. **Innovation-**
    : 01(Developed a simple,low energy requiring methods ofCoagulating leaf protein for foods)
21. **Organized Conferences:** 09
22. **Member of Academic Societies:** 27 (Life member-16).

Future planning (2015-2020)

23. **Bio-prospection of Plant Resource Utilization and development of Protein rich feasible diet of Nutraceutical nature to common people through linking National and International Organizations.**
24. **Linking of Indigenous and Traditional knowledge with global Perspective (Think globally and Act locally) and to concentrate on Ethno-botanically used Nutraceutical Plants of the Region.**
25. **Exploration of "Protein Resources" from Hydrosphere and Lithosphere for Common People.**
26. **To implement Nutraceutical Curriculum for Graduate and Post-Graduate Students.**
27. **Collaboration with National and International Institutes to upgrade the quality of Research and Products for Health and Wealth of the Society.**

BIO-DATA

1.	Full Name	:	**DR.VASHISTNARAYAN PANDEY**
2.	Date of Birth	:	1st January1963
3.	Designation	:	**Professor (27.7.2006)**
4.	Date of appointment**:**		**Lecturer 20-11-1987** **Associate Professor 27.7.1998**
5.	Address	:	Department of Botany, DDU Gorakhpur University

Gorakhpur.
789/J Chhapper Niwas, Hanuman Mandir Road, Viveak Nagar, Jungle Tulsi Ram East, Bichhiya, Gorakhpur-273014.

6. Academic Qualification **:** M.Sc. (Botany), Ph.D.

7. Field of Research:

a. Field of Research **:Plant Resource Utilization / Biodiversity; Ethnobotany / Nutraceuticals / Plant Physiolog /Biochemistry/ Medicinals Plants**

b.Field of Research interest **:Biosystematics/ /Biological Conservation/ Biofuctional Protein/ Therapeutic Proteins/ Medicinals Plants**

8. Academic Visits Abroad

1) **Dublin, Ireland (10 Sept. 1994)**
   To present paper entitled "Polyvalent use of aquatic green biomass for food/feed protein concentrates, bio energy and microbial fermentation product", 3rd, International symposium on aquatic weeds.
2) **Kathmandu, Nepal (23-30 April, 1993).**
   To present paper entitled "Fungal biodiversity and its role in biotechnology" National Conference on Biotechnology.
3) **Norwich and London, UK(25-28 June, 1995)**
   To present paper entitled "Composition and in-vitronutritive value of some leafy vegetables in Ethnobotanical food use in North Eastern India" International Conference on Agric Food quality.
4) **Bangkok, Thailand (03-07, July, 1995).**
   To present paper entitled "Prevention of cultural heritage in wood and leather by volatile constituents of higher plants" reprints of 3rd International conference on Biodeterioration of cultural Property.
5) **Toronto, Canada (06-11, Nov. 1995).**
   a. To present paper entitled "Food/feed use of aquatic macrophytes of North Eastern Uttar Pradesh, India", International Symposium on lake, reservoir and Watershed Management.
   b. To present paper entitled "Depletion of Ramgarh Lake consequent dangers to flora and fauna and remedes". 15th International Symposium on lake, reservoir and Watershed Management.
6) **Savannah, Georgia, USA (25 Jul-10 Aug, 2016**)

To present paper entitled "Fomeage Cafetaria: A New global perspective towards utilization, Conservation and Biodiversity-climate link, Botany 2016, International Trade and Convention Centre, Savannah, Georgia.

8. Scientific Leadership

A. Chaired: **Inaugural Session**, National Conference, Rohatak

B. **Member, Jury of Young Scientist** Session, National Conference,Rohatak

C. **Chaired: Inaugural Session**, National Conference, Shoharatgarh

D. **Expert Memberof Jury of Inspire Award**Sponsored by DST, New Delhi

E. **Co-Chaired**-Land to Lab Workshop on Exploring Farmers Priorities of Research to Adapt to Climate Change, 27 Feb. 2010.

F. **Technical Co-ordintor**- Refresher courses.

G. **Co-ordintor**- Refresher course.

H. **Co-ordinator**- Green Herbal Health Centre

I. **Honorary Member**, New York Academic of Sciences, USA.

J. Organised many Conferences/Symposia and Workshop as **Organising Secretary** (1987-2013)

K. **Technical Co-ordinator/Co-course Coordinator** (2006–2013)

L. **Coordinator-Short term course onPlant Medicine and Health** Organized by Academic Staff Collegeand Department of Botany, DDU Gorakhpur University, Gorakhpur, Sept.01-07, 2012.

M. **Chaired: Inaugural Session**, National Conference on **Recent Advances in Biological Sciences** MarwarBusiness School,Gorakhpur**26** April, 2014.

N. **Chaired: Inaugural Session**, National Conference on **"Health and Biodiversity"** Marwar Business School, Gorakhpur March 2-3, 2015.

O. **Member, Green Educators' Network, Center for Science and Environment, New Delhi, Jan 28-29, 2016.**

P. **Chaired: Inaugural Session**, National Conference on **"Plant Medicine, Biodiversity-Climate Link"** Marwar Business School, Gorakhpur Feb. 2-3, 2016.

Q. **Chaired: Technical Session**; **Biotic and Abiotic Stress,**National Conference on **"Agrotechnology, Commerce and Sustainable Use of Medicinal and Aromatic Plants"** National Agricultural Science Centre (NASC) PUSA Campus, New Delhi, Feb.6-7, 2016.

R. **Chief Co-ordinator** National workshop on paper writing and effective communication, 17-18 September, 2016, DDU Gorakhpur University, Gorakhpur.

S. **Chaired Technical Session of Panel Discussion** of Heads of Science Faculty, National workshop on paper writing and effective communication, 18 September, 2016.

T. **Chaired: Technical Session** of invited speakers in Indian Botanical Society, Ranchi University, Ranchi, 21-23 October

1. Chief Guest Valedictory Session; National Conference on

Changing Environment, Plants, Diseases and Human Health-Vulnerability and impact Assessment for Adaptation to climate Change: The road to future,Andrew's College (P.G.), Gorakhpur.

U.

9. **Delivered** several **Invited Lectures/Lead Lectures** in Conferences/Seminars/ Symposia and Orientation/Refresher Courses.

A. Invited Lectures in Conferences

2. **V.N.Pandey** (2011)**Biodiversity, Sustainable Utilization and Conservation of Medicinal and Nutraceutical Plants of North Eastern Terai Region of U.P**. India.National Conference on Climate Change and Biodiversity,21-22Jan.DepartmentofBotany, SVMMPG College Gorakhpur.

3. **V.N.Pandey** (2011**) 6th Nutra India Summit,** Feb 15-18, Mumbai**.**

4. **V.N.Pandey** (2011**) Plant Biodiversity, Utilization, Conservation of Biodiversity-Climate link North Eastern Terai Region of U.P**. National Conference on Biodiversity: Challengesand Opportunities, Feb.18-19.Department of Botany, M D University, Rohtak.

5. **V.N.Pandey** (2011**) National Seminar on Medicinal Plants Cultivation for Promoting Rural Economy in Bihar, department of Botany, Gopeshwar College, Gopalganj, Bihar.** 19-20 Feb.

6. **V.N.Pandey** (2011) "**Fomeag Cafetaria: A Global Perspective towards Utilization, Conservation of Biodiversity-Climate link"**. National Seminar on Status of Biodiversity-Matter of Global Concern, Department of Botany, SPPG College, Siddharthnagar, 21-22 Feb.

7. **V.N.Pandey** (2011) **Biodiversity of Biofunctional Plants, Utilization and Conservation**. National Advances in the Development of Geographical knowledge and itsInterdisciplinary Association with Sciences, BHU, Varanasi .Nov.3-4, 2011.

8. **V.N.Pandey** (2011) **Biodiversity of Nutraceutical Plants, Utilization and Conservation**. National Conference on Environmental degradation vis-à-vis Biodiversity Conservation. M.LK PG College, Balrampur, Nov.5-6, 2011.

9. **V.N.Pandey** (2011) **Environmental Degradation and Suggestive Measures for Sustainable Development of Plant Biospecific Regions of India**, NationalConference on Environmental Degradation and Suggestive Measures., Bada Gaon, Varanasi, Dec. 17-18.

10. **V.N.Pandey** (2012)International Conference on Plant Biotechnology for Food Security: New Frontiers Organized by National Agricultural Science Centre, PUSA, New Delhi, India, Feb 21-24

11. **V.N.Pandey** (2013**) Fomeage Cafeteria: A new hope for Biotechnology, Biodiversity and Biodiversity Climate-Link**.100thIndian Science Congress, Kolkatta.Jan.01-07.

12. **V.N.Pandey** (2013**) Medicinal Plants and Phytomedicines: Linking Plant Biofunctions to Human Health**(An Invited article submitted to 1st U.P.Science Congress).DDU Gorakhpur University, Gorakhpur.March,02-04.

13. **V.N.Pandey** (2013).**National Conference on Biodiversity, Conservation and SustainableDevelopment**. St. Andrews College, Gorakhpur. Feb 06-07.

14. **V.N.Pandey** (2013) Biodiversity**: Live Telecast of Biofunctional plants, Utilization andConservation**. National Conference on Biodiversity and Conservation.BBC College, Jhansi. March 08-10.

15. **V.N.Pandey** (2013)Jaivprodyogiki, Jaivvividhita auvam Jaivvividhita Jalvayu-Kari: Ek nai Aasha. II National Symposium on **BARC Technology for Development of Rural India**, Organized by BARCOA, Mumbai and DDU Gorakhpur University, Gorakhpur. March, 12-13.

16. **V.N.Pandey** (2014) National Conference on **Recent Advances in Biological Sciences** Marwar Business School, Gorakhpur, April 26.

17. **V.N.Pandey** (2014)**Science Teacher Training Workshop** organized by **District Science Club, Maharajganj** and sponsored by **State Council of Science and Technology, UP,** Sep 19-20.

18. **V.N.Pandey** (2014**) XXXVII ALL INDIA Botanical Conference ofIndian Botanical Societ**y and National Symposium on**Biodiversityand Climate-Change,Mulund, Mumbai, 7-9Nov.**

19. **V.N.Pandey** (2014) **Cytogenetics, Biodiversity,Plant ResourceUtilization and Conservation** in training programme on **Plant Molecular Cytogenetics,** St. Andrew's College(P.G.), Gorakhpur **Nov 13.**

20. **V.N.Pandey** (2014) **Biodiversity, Health, Medicine and Conservation of Biodiversity and Biodiversity-Climate links through Fomeag Cafeteria**. National conference on **Biodiversity and Climate Change Adaptations- Current Status Trends and Policy Responses,** Department of Botany, St. Andrew's College(P.G.), Gorakhpur **Dec 3-4.**

21. **V.N.Pandey** (2014**) Seminar on Haemoglobin and Thyroid status in Women of Eastern Uttar Pradesh and Possible remediation,** M.G. Post Graduate College, Gorakhpur, **December 6.**

22. **V.N.Pandey** (2014) **Natural Resources, Degradation, Suggestive Measures for Holistic and Sustainable Development**. National conference on **Degradation of**

Natural Resources is Anthropogenic or Natural, M.G.P.G. College and Vasudha Nidhi sansthan, Gorakhpur**Dec 9-10.**

23. **V.N.Pandey**(2015)National Conference on **"Health and Biodiversity"** Marwar Business School, Gorakhpur March 2-3, 2015.

24. **V.N.Pandey**(2015)National Conference on **"Health and Environment"** Mahila Mahavidyala P.G. College,PatnaDec.2-3, 2015.

25. **V.N.Pandey** (2016) Medicinal Plants, Public Health and Their Conservation Strategies, **"National Conference on Climate Change, Medicinal Plants and Health: Strategizing an Ethnobotanical-Social Resilience"**Department of Botany, St. Andrew's College (P.G.), Gorakhpur,Jan.27-28,2016**.**

26. **V.N.Pandey**(2016) National Conference on **"Agrotechnology, Commerce and Sustainable Use of Medicinal and Aromatic Plants"** National Agricultural Science Centre (NASC) PUSA Campus, New Delhi, Feb. 6-7, 2016.

B. Invited Lectures in Orientation/Refresher Courses-27

1. **Plant resource utilization**, Orientation course, Academic Staff College, DDU Gorakhpur University, Gorakhpur, Sept., 2011.
2. **Plant and Society**, Refresher course, Academic Staff College, DDU Gorakhpur University, Gorakhpur, Sept., 2011.
3. **Biofunctional plant biodiversity**, **utilization and conservation**, Academic Staff College, BHU Varanasi, Oct., 2011.
4. **Biodiversity, plant resource utilization and conservation**, Department of Botany, DDU Gorakhpur University, Gorakhpur.20.09.2011.
5. **Plant History and Civilization in the light of research methodology in Sociology,** Department of Sociology, DDU Gorakhpur University, Gorakhpur, Jan 21, 2012.
6. **Fomeag Cafeteria; Biodiversity, sustainable utilization and conservation of biodiversity & biodiversity climate link (part I),**Department of Botany, DDU Gorakhpur University, Gorakhpur, Sept. 20, 2011.
7. **Fomeag Cafeteria; Biodiversity, sustainable utilization and conservation of biodiversity & biodiversity climate link (part II),**Department of Botany, DDU Gorakhpur University, Gorakhpur, Sept 21, 2011.

8. **Plant, Personality and Paryavaran (Environment),IOrientation Course organized by NSS Centre,** DDU Gorakhpur University, Gorakhpur, Dec 31, 2011

9. **Bioprospection of biofunctional plant diversity, utilization and conservation through FOMEAG Cafeteria (Part I),** Department of Botany, Allahabad University, Allahabad Jan 23, 2012.

10. **Bioprospection of biofunctional plant diversity, utilization and conservation through FOMEAG Cafeteria (Part II)** Department of Botany, Allahabad University, Allahabad Jan 23, 2012.

11. **Interface of Biology and Chemistry: Nutraceuticals, Antioxidants and phytochemicals,** Department of Chemistry, DDU Gorakhpur University, Gorakhpur, and Feb 3, 2012.

12. **Research Methodology for research project in SocialSciences,**Workshop Department of Sociology,DDU Gorakhpur University, Gorakhpur, Feb 7, 2012.

13. **Religious plants in our sansakrit and culture;** Department of Sansakrit and Prakrit Bhasha, DDU Gorakhpur University, Gorakhpur, Feb 17, 2012.

14. **Medicinal plants in our culture,** Department of Sansakrit and Prakrit Bhasha, DDU Gorakhpur University, Gorakhpur, Feb 18, 2012.

15. **Aurvedic and traditional plants in our culture, Refresher Course** in the Department of Sansakrit and Prakrit Bhasha, DDU Gorakhpur University, Gorakhpur, Feb 22, 2012.

16. **Evaluation of Seminar delivered by participants of orientation course in Academic Staff College,** DDU Gorakhpur University, Gorakhpur, Feb 18, 2012.

17. **Plant Resource Utilization:**Orientation course inAcademic Staff College, DDU Gorakhpur University, Gorakhpur, June. 2012.

18. **Plant Medicine and Health:**Short term course organized byAcademic Staff Collegeand Department of Botany, DDU Gorakhpur University, Gorakhpur, Sept.01-07, 2012.

19. **Biodiversity: Live Telecast of Mother Earth Planet, utilization and Conservation.**Orientation course inAcademic Staff College, DDU Gorakhpur University, Gorakhpur, June.28, 2013.

20. **Biodiversity and Plant Resource Utilization**, Orientation course inAcademic Staff College, DDU Gorakhpur University, Gorakhpur, Feb 7, 2013.

21. **Plant and Man:** Orientation course in Academic Staff College, DDU Gorakhpur University, Gorakhpur, Jan.29, 2014.

22. **Plants and Human welfare:** Orientation course, Academic Staff College, DDU Gorakhpur University, Gorakhpur, June.09, 2014.

23. **Plant resource utilization**: Orientation course, Academic Staff College, DDU Gorakhpur University, Gorakhpur, 19 June 2015.

24. **Biodiversity of Medicinal Plants Drugs and Their Conservation:** Orientation course, Academic Staff College, DDU Gorakhpur University, Gorakhpur, 11 Jan. 2016.

25. **Natural Security and Their Conservation:** Refresher course in Department of Defense and Strategic Studies and Academic Staff College, DDU Gorakhpur University, Gorakhpur, 30 Jan. 2016.

26. **Plant and Planets:** Orientation course, Academic Staff College, DDU Gorakhpur University, Gorakhpur, 21 June 2017.

27. **Power of Plants:** Refresher course in Department of Defense and Strategic Studies and Academic Staff College, DDU Gorakhpur University, Gorakhpur, 30 Sept. 2016.

10. Convener:

: **Naming Committee of Plants of University Campus Invitation committee (**1st U.P.Science Congress) DDUGorakhpur University, Gorakhpur. March, 02-04, 2013.

: **Technical Sessions** (1st U.P.Science Congress).DDUGorakhpur University, Gorakhpur.March, 02-04, 2013.

: **Press Report** 1st U.P. Science Congress). DDU Gorakhpur University, Gorakhpur.March, 02- 04, 2013.

: **Publication and Technical session** in 2nd National Symposium on BARC Technology for Development of Rural India, Organized by BARCOA, Mumbai and DDU Gorakhpur University, Gorakhpur.March, 12-13,2013.

: **Transport Committee** All India Vice Chancellors Meet DDU Gorakhpur University, Gorakhpur.May,04-06,2013.

: **Reception Committee** All India Vice Chancellors Meet DDU Gorakhpur University, Gorakhpur.May,04-06,2013.

: **CountingCommitteeof Plants ofUniversity2014.**

: **Convener - Entrance Exam B. Sc. (bio)** June **2015**

: **Convener - Admission Committee B. Sc. (bio)** July 2015.

11. Experience

a. Teaching: **30 years** (Since 20.11.1987 till date)

b. Research:**34 Years**:**Biodiversity, Plant resource utilization, Ethnobotany**, **Nutritive value of leafy vegetables/ Leguminous Seeds/ Unconventional/ Underutilize Food Plants/ Nutraceutical plants/ Biofunctions/)**

c. Training/Orientation/Refresher Programme: 18

1. Training received in evaluation of Protein Nutritive value at IVRI, Izatnagar, UP, Oct. 5-12, 1988.
2. Training received in BGA (Cyanobacteria) Bio-fertilizer, Sponsored by Department of Biotechnology at IARI, New Delhi, Aug. 19-31, 1991.
3. Completed Orientation Programme in IGNOU for Foundation Course in Science and Technology, Regional Center Lucknow, 6-7 Feb, 1992.
4. Discussion and training in Mushroom study Department if Biosciences, HP University, Shimla (HP), 21-24, April 1995.
5. Participated in training Programme on CarrierCounselling DDU Gorakhpur University Gorakhpur, Sept.8-10, 1997.
6. Participated in 47th Orientation Course from June 22July 19, 2002, DDU Gorakhpur University Gorakhpur.
7. Participated in "University Talk AIDS" Phase II, 27-30 July, 2004, Agra.
8. Participated in Refresher Course from 27-11-2004 to 17.12.2004, DDU Gorakhpur University, Gorakhpur.
9. NSS Training and Orientation Programme in DDU Gorakhpur University, Gorakhpur, 26-27 Nov. 2005.
10. Participated in Refresher Course from 08.11.06 to 28.11.06, DDU Gorakhpur University, Gorakhpur.
11. Participated in Refresher Course from 02.01.2007 to 22.01.2007, DDU Gorakhpur University, Gorakhpur.
12. **Two Weeks** Training on Plant Taxonom**y Jan 21-31,2008, Forest Research Institute, Dehradun.**
13. **Two Weeks Training Programme on** Capacity Building in Plant Taxonomy **Sept. 27-Oct.08, 2010,Forest Research Institute, Dehradun.**
14. **Participated in Faculty Development Programme** in Entrepreneurship sponsored by National Science and TechnologyEntrepreneurship Development Board and Department of Science and Technology, Government of India and DDU Gorakhpur University, Gorakhpur.Feb.9-20, 2010.
15. **Training Workshop on Green Chemistry, Chemistry for Tomorrow's WordDec.26, 2011, Sponsored by Royal Society of Chemistry London, Department of Chemistry, Delhi University, Delhi.**
16. **National Training on Naturally OccurringNutraceuticals,Crop Protectants and Other Biomolecules for Application in Human and Crop Health.** Indian Agricultural Research Institute,New Delhi, Jan.22-Feb.2,2012.
17. **Short term course training on bio-fortification of food crops.**Indian institute of pulses research, Kanpur U.P. Aug.04-13, 2014.

18. Participated in the **First Knowledge Conclave for Colleges and Universities** Organized by **Center for Science and Environment, New Delhi on Jan 28-**29,2016

12. Innovations

1. **Developed: a simple, low energy requiring methods of coagulating Leaf protein for food use.**
2. Temporal variation in Protein Content of *Vignamungo* L. Hepper leaves (1991), in which protein rhythmicity /degradation were observed for this type of work at molecular level was awarded by Nobel Prize(2004) to three scientists (two from CZECH Republic and One from USA)

3. **Developed a New Concept for "Cultivation, Utilization and Conservation of Biodiversity and Biodiversity-Climate Link" as an "INTEGRATED FOMEAG CAFETERIA".**

13. Research Guidance

: Guided Ph.D. students :**12**
: Guided P.G. Project:**17**
: Guiding Ph.D. Students : **08**
: Dissertation Work: **11**

14. Popular Articles

: Delivered Twenty five Popular Science Talks from All India Radio/ Doordarshan, Gorakhpur.

1. Role of microorganisms in Human Life, Dec.10, 1990.
2. Community Development, Nov.6, 1990.
3. Green leaves additional source of protein, July.18, 1991.
4. Gandhi: Our Ideal, July.10, 1991.
5. Katata Van aur BigarataParyavaran, 2003.
6. BigarataParyavaran-Badhte Khatare,29 Sept.2004
7. Biodiversity and its utility.
8. Ozone parat ka kshran aur manav jeevan par dushprabhav.
9. Vanaspati vigyan mein Uchch shiksha prapk chhatron keliye shodh ki sambhavanayen.
10. Biotechnology- Naye Aayam.
11. Bhojya padarthon ke tatwon ka aushadhi ke rup me prayog.
12. Herbal kheti: aushadhiya Krishi Utpadon ka badhata bazaar, 17 May 2007.
13. Vanspatio aur bano ka paryavaran sanrakhan me yogdanFeb.2, 2008.
14. Aushdhiy Paudho ke Niryat me Bharat ki hissedariMarch 18, 2009.

15. Nutraceutical Paudhe: Janswasth aum Paryavaran meMahatwa, 25 April, 2008.
16. Nutraceutical Plants-Need of the hour,Sept.1,2008
17. Jaivik kheti, 16 June 2009.
18. Global Warming and Jalyavu Parivartan, 1 Aug.2009.
19. Vaishvik Paryavan ke samaksha chunautia, 2 June, 2009.
20. Gramin anchalon mei kuposhan, jan swasthya evam paushadhiya (Nutraceuticals) paudhe.
21. Jaliya aushadhiya paudho ka mahatwa. 6 April, 2010.
22. Shiksha Path-Koshika Sanranchana,26 Nov.2010
23. Paryavaran Quiz, 7 June, 2011.
24. Agricultural and Medicinal Plants, 2015
25. Paryavaran Suraksha, Manav and Vanya Jeev , 22 Sept.2015
26. Krishi Raksha ke Jaivik Upay, 22 Sept. 2016.

15. Award/ Scholarship

1. National Scholarship from I.Sc.to M.Sc. Classes (1979-84).
2. U.P. State Scholarship (1984-1987).
3. Junior Research Assistant (1987-89).
4. Sr. Research Assistant (1989-90).
5. Young scientist Award, DST (1990-93).
6. Pool scientist Award, CSIR (1993-96).
7. Received **a Book award from UNEPin Toronto** by North AmericanLake management society, Canada (1995).
8. **Popular science award, 2006**, by District Science ClubMaharajganj,Sponsored by CST, UP Lucknow.
9. **Honoured by District magistrate**, Maharajganj for Popularization of Science in Maharajganj District.
10. **Honoured by Chairman, National Conference on Biodiversity and Conservation BBC College**, Jhansi, 8-10March, 2013.
11. **Honoured by Bhabha Atomic Research Centers of the Officers Association (BARCOA)** for their immense contribution towards the organizing the symposium and for delivering a lecture in BTDRI – 2013, DDU Gorakhpur 12-13 March 2013.
12. **Honoured by Chairman National Conference onBiodiversity Conservation and Sustainable Development**,St. Andrew's College, Gorakhpur, Feb. 6-7, 2013.
13. **Honoured by Chairman, National Conference on"Healthand Biodiversity"** Marwar Business School, GorakhpurMarch 2-3, 2015.
14. **Honoured by Chairman, National Conference on"Health and Biodiversity"** Marwar Business School, Gorakhpur March 2-3, 2015.

16. Publications

(a) Research Papers : 106

(b) Edited Research publications: **6**

(**Edited abstracts of five National** Conference/Symposium which was held in Botany Department, DDU Gorakhpur University, Gorakhpur).

1. **Editor**, Third Convention of Society for Green Vegetation Research ad symposium on progress in green vegetation Research in India Dec. 10-12, 1989.
2. **Editor**, National Symposium on Biodiversity and Plant Disease Management Jan. 18-19, 1991.
3. **Editor**, National symposium on Plant Pathogens and current trends in plant disease management, Feb. 28-29, 1996.
4. **Editor**,National seminar on Frontiers of fungal Diversity in Indian sub-continent, Aug. 24-25, 2002.
5. **Editor**, National Conference on Biofunctions,Biodiversityand Plant Resource Utilization, Jan.30-31, 2009.
6. **Editor**,National Conference on Biodiversity: Changing Patterns and Conservation Strategies, Nov.26-28,2011

(c) Book Authored:

Published- 05

1. **Microtechnique & Biotechnology 1992**
2. **Utilization of Aquatic Plants 2003**
3. **Bioprospection of Aquatic Plants 2007**
4. **Bioprospection and Utilization of Aquatic Plants2011**
5. **Biotic Potential & The Abiotic Stress 2011**

In Process -02

6. **Medicinal Plants**
7. **Biofunctional Legumes**

17. Project Handled

a) Completed

1. Studies on nutritive value and economic evaluation of a new source of food and feed protein concentrates obtained from the leaves of some members of Cyperaceae (Sponsored by CST, UP, Lucknow), Oct. 1987 to Jan. 1990.

2. Studies on factors affecting yield and quality of leaf protein concentrate from Crotalaria sericea*Retz*. and*Veronica anagalis-aquatica* L. (As principal Investigator sponsored by DST, New Delhi) Sept. 1990 to March 1993.

3. Popularization of BGA Bio-fertilizer in Paddy Cultivation in Bagapar Nayay Panchayat, Maharajganj, UP (as Co-Pl, sponsored by DST New Delhi).

4. University talk AIDS Project phase II, sponsored by Ministry of sports and Youth affairs Govt. of India, New Delhi.

5. Biodiversity Chemical characterization and agro techniques of ethnobotanically used nutraceutical Plants of North Eastern Terai Region of UP, sponsored by SCST, UP, Lucknow.(Nov.2006 to Nov.2009).

6. Studies on Agrotechniques of Termitomyces in the North Eastern Terai Region of U.P. sponsored by DST,New Delhi. (Oct.2009 to Oct. 2012).

b) Ongoing

1. Nutraceutical Potential and Therapeutic ProteinConcentrates (TPC) of some ethnobotanical Nuts andPseudonuts, sponsored by UGC,New Delhi. (April 2013to April 2016).
2. Agrotechnique value Adittion and Conservation of *Withania somnifera* Dunn.and *Rauvolfia serpentine* Linn. (Benth.) Ex-Kurz. For upliftment of farmers inGorakhpur District. Sponsored by DBT,New Delhi. (2013-2016)

18. Corporate activities

1. **Members**, Board of studies.
2. **Programme Officer**, NSS (2003-2007).
3. **Programme Co-ordinator**, University Talk AIDS.
4. **Co-Incharge/Incharge**, Botanic Garden and Herbarium.
5. **Member** of flying Squad (1994-2008).
6. **Observe**r in Exams (2003-2013).
7. **Observer**, UP Madhayamik Sikasha Seva Chayan Board 2006.
8. **Asst. Co-ordinator**, IGNOU, University Center(1992).
9. **Counselor** IGNOU, New Delhi.
10. **Counselor** UP Rajarshi Tandon Open University.
11. **Counting / Election Officer** in Student Union Election.
12. **Member** of Admission Committee(2002-2013).
13. **Conducted Entrance Exams.**
14. **Member** of Pandal Samiti in Convocation.
15. **Member**, Council of Science faculty(2003-2010).
16. **Technical Coordinator**-Refresher Courses
17. **Asst. Superintendent / Superintendent** of Exams
18. **Co-ordinator**, Green Herbal Health Centre
19. **Co-ordinator**, Refresher Course2011
20. **Convener**,Naming Committee of Plants of University Campus
21. **Member** Beautification Committee of University Campus.

22. **Member**, Research Degree Committee.
23. **Member**, Ph.D. Syllabus /Course Committee.
24. **Member**, Purchase Committee.
25. **Leaded** many **academic** educational **tour** of B.Sc. andM.Sc. to local places and rich vegetation areas viz. Darjeeling, Gangotok, Shimala, Rameshwaram, Kanya Kumari, Madurai, etc.
26. **Member**,U.P.Biodiversity Board.
27. **Member, Executive Council**
28. **Member**, Departmental Committee.
29. **Convener**, Lokdharm Vatika
30. **Convener**, Nakshtra and Navgrah Vatika
31. **Member, Plantation** Committee
32. **In charge**, **Botanical Garden 2013 -2015**
33. **Convener** of invitation Committeeand Technical Session in I U.P. Science Congress, DDU Gorakhpur University, Gorakhpur.
34. **Convener** of Press Report of **the Ist U.P. Science Congress**, DDU Gorakhpur University, Gorakhpur**.**
35. **Technical Coordinator** of Publication/Technical session in BARCOA Symposium DDU Gorakhpur University, Gorakhpur. 12-13 March, 2013.
36. **Member of Transport Committee** All India Vice Chancellors MeetDDU Gorakhpur University, Gorakhpur.May,04-06,2013.
37. **Member of Reception Committee** All India Vice Chancellors MeetDDU Gorakhpur University, Gorakhpur.May,04-06,2013.
38. **Observer, B.Ed. Counselling(2013)**
39. **Representative, B.Ed. Counselling (2013)**
40. **Member and** Chairperson of Admission Committee (2014)
41. **Member of Academic Council (2014)**
42. **Member ofCouncil of ScienceFaculty (2014)**
43. **Convener** of **Admission Committee UG BIO Group (2015)**
44. **Convener of Admission Committee PG Botany (2015)**
45. **Member of Academic Council (2015)**
46. **Chief Observer,UP CPMT (2015)**
47. **Convener, Pre-Ph.D. Course (2014,2015)**

19. **Seminar/Symposia/Conferences/Workshops Attended atNational AndInternational Level : 114**
    1. International - 25
    2. National - 68
    3. Workshop - 21

20. **Member of academic societies : 27**
    Founder and Life member **-01**
    Life member **-16**
    Ordinary/Annual member **-06**
    Honorary member **-04**

(a) Founder & Life member :

1. International Society for Plant Physiologist of SAARC countries.

(b) Life member

1. Indian Science Congress Association, Kolkata.
2. Indian Botanical Society, Jaipur
3. Indian Society for Plant Physiology, New Delhi.
4. Society for Plant Biochemistry and Biotechnology, New Delhi.
5. Indian Association of Angiosperm Taxonomy, Calicut
6. Eco-transformation society, New Delhi.
7. International Association forPlant Taxonomy, Czech Republic
8. The Indian Society of Agricultural Biochemists,Kanpur.
9. Association of Plant Taxonomy, Dehradun.
10. National Academy of Sciences, Allahabad
11. Mushroom Society of India, Solan.
12. Nutrition Society of India, Hyderabad.
13. Society for Conservation and Resource Development of Medicinal Plants, New Delhi.
14. Prof.H.S.Srivastava Foundation for Science and Society, Lucknow.
15. Swadeshi Science Movement of India, New Delhi.
16. Indian Science News Association, Kolkata.

(c) Member (Annual/ordinary)

1. Association of Food Scientist and Technologist, CFTRI, Mysore.
2. Society for Green Vegetation Research Indian chapter, Kolkata
3. Association of Microbiologists of India, Hissar.
4. Indian Phytopathological Society, New Delhi.
5. Indian National Science Academy, New Delhi.
6. IndianAcademy of Agricultural Sciences, New Delhi.

(d) Honorary Member

1. New York Academy of Sciences, USA.
2. North American Lake Management Society, USA.
3. Institute of Food Research, Norwich, England.
4. European Weed Research Society, Dublin, Ireland.

21. Member Editorial Board

1. **Journal of Medicinal Plants**, New Delhi.
2. **Proceedings of National Academy of Sciences** Sec Bio,Allahabad.
3. **Journal of Agricultural Biochemists**, Kanpur
4. **Indian Journal of Plant Physiology, Springer**

22. International Appretiation/Collaboration

1. Letter of Appreciation from Director General, FAO, Roam, Italy (Annexure-III)

2. Letter of collaboration/ Member of Health Network, Institute of food research, Norwich, England (Annexure-IV).
3. Letter of Appreciation/ Collaboration from Prof. Raul Cans from Centiago, Chile (Annexur-V)

23. Fellow of Society

1. **Fellow** of Indian Botanical Society(**FBS**)
2. **Fellow** of Association of Plant Taxonomy (**FAPT**).
3. **Fellow** of Indian Society for Plant Physiology**(FISSP**)(Applied)
4. **Fellow** of Indian Association ofAngiosperm Taxonomy(**FIAAT**)

24. List of Ph.D. Students Awarded/Guided

1. Dr. M.K.Chaurasia (2005)
2. Dr.R.N.Gupta (2006)
3. Dr.R.K.Pandey (2007)
4. Dr.Anup Kumar Dwivedi (2009)
5. Dr.Nidhi Gupta (2010)
6. Dr.Abhai Kr. Srivastava (2010)
7. Dr.Ram Chandra Ram (2011)
8. Dr.NeeharikaDubey (2013)
9. Dr.Vandana Chauhan (2014)
10. Dr.Alka Gupta (2015)
11. Dr.Rakesh Pandey (CSIR, SRF) (2015)
12. .Dr.Jayendra Nath Singh (2016)
13. Dr.Anil Kumar (2016)
14. Dr. Richa Srivastava (2017)
15. Dr.Vineeta Singh (2017)
16. Dr.Neha Tewari (2017)
17. Dr.Shipra Pandey (2017)
18. Manoj Kumar Chaubey (2017)
19. Anita Rao (RGNF) (2017)
20. Neha Tiwari (INSPIRE, DST) (2017)
21. Sarvesh Patel (2017)

25. <u>List of Ph.D. Students working/to be submitted</u>

1. Manoj Kumar Chaubey
2. Anita Rao (RGNF)
3. Neha Tiwari (INSPIRE, DST)

4. Sarvesh Patel
5. Shipra Pandey (WOS, DST)
6. Vineeta Singh (WOS, DST)
7. Nidhi Rai
8. Vageshwari (RGNF)
9. Mustak Ali
10. Chandra Prabha Arya

26. Women Scientist Working

1. Dr. Nidhi Gupta
2. Mrs.Richa Srivastava
3. Mrs. Bobby Srivastava
4. MissVinita Singh
5. Miss Shipra Pandey
6. Miss Anita Rao
7. MissVageshwari

Annexure-I

List of Dissertation Supervised/Guided-

1. **R.N.Chaube (1991)** Evaluation of yield and Nutritive value of leaf protein concentrates of some less used leafy vegetables with special reference to *Amaranthus caudatus*.

2. **M.K.Chaurasia (1991)**. Content and nutritive value of protein of some uncommon leafy vegetables with special reference to *Chenopodium album*.

3. **R.N.Gupta (1991)**. Studies on response of BGA biofertilizer along with various doses of Nitrogen fertilizer on growth and yield on growth and yield of rice (*Oryza sativa*) Var. Saket 4.

4. **A.K.Singh (1991)**. Studies on response of BGA biofertilizer along with various doses of Nitrogen fertilizer on growth and yield of rice (*Oryza sativa* L.) CV.I.R.8.

5. **Dhruv Narayan Singh (1992)**. Yield and quality of leaf protein yield of some forage legumeswith special reference to *Crotalaria medicagenia*.

6. **Kripa Shankar Singh (1992).**Studies on yield and Nutritional Composition of seed protein of some leguminous plants of Gorakhpur with special reference to *Crotalaria juncea* L.

7. **Ajeet Pratap Singh (1992).**Studies on some herbaceous weeds for their leaf protein and Nutritional composition with special reference to *Amaranthus virdis* L.

8. **Jitendra Kumar Singh (1992).**Studies on yield and nutritive value of leaf protein concentrates of some less used leafy vegetables with special reference to *Trigonella foenum-graecum*.

9. **Shree NiwasChaube (1992).** Yield and nutritive value of protein concentrates of some Agricultural wastes and crop refuses with special reference to *Vicia faba* L.

10. **Rita Mishra (2004).**Hydrobiology of Ramgarh Lake.

11. **Satish Kumar (2013)** Nutraceutical and Physiological Characterization of some legumes with special references to *Vigna mungo* L. and *Vigna radiata* L.

12. **Nikita Jaiswal (2013)** Nutraceutical and Physiological Characterization of some vegetables with special references to *Luffa cylindrica* L. and *Momordica charantia* L.

13. **Apala Anand (2013)**Nutraceutical and Physiological Characterization of some fruits with special references to *Cucumis melovar. momordica*L.

14. **Prasant Kumar (2014)** Nutraceutical and Physiological Characterization of *Glycyrrhiza glabra* L.

15. **Sony Chaturvedi (2014)** Nutraceutical and Physiological Characterization of *Trigonela foenum-graecum* L.

16. **Preeti Sharma (2014)** Nutraceutical and Physiological Yield and Characterization of *Millettia ovalifolia* (L).

17. **Chandra Prabha Dhar Dubey (2014)** Nutraceutical and Physiological Characterization of *Adenthera pavonina* L.

18. **Hemant Kumar (2015)**Nutraceutical and Physiological Characterization of *Millettia ovalifolia*K

19. **Jag Jeewan (2015)**Nutraceutical and Physiological Characterization of *Pterospermum acerifolium* L Wild

20. **Shivendra Yadav (2015)**Nutraceutical and Physiological Characterization of *Terminalia arjuna*(Roxb). Wight&Arm.

21. **Neha (2015)** Nutraceutical and Physiological Characterization of *Caesalpinia bonducella* LKurz

Annexure-II

List of publications-

(I) Papers Published :

1. N.K.Singh, A.K.Pandey, G.P. Rao, **V.N.Pandey** and A.K.Srivastava (1987). Effect of Plant growth stages on the extractability and composition of leaf protein concentrates of some aquatic weeds. Proceedings Nat.Acad.Sci.India:57(B), p. 430-434.

2. **V.N.Pandey** and A.K.Srivastava (1989). *Veronica anagalis-aquatica* L. A potential source of leaf protein. Aquatic Botany:34, p. 385-388.

3. **V.N.Pandey** and A.K.Srivastava (1990). Seed protein yield from some Crotalaria spp. and in vitro nutritional quality of that from *C. juncea*. Plant foods for Human Nutrition: 40, p. 195-200.

4. **V.N.Pandey** and A.K.Srivastava (1990). Temporal variation in protein content and yield of *Vigna mungo* (L.) Hepper Leaves. Plants foods for human nutrition: 40, p. 234-247.

5. **V.N.Pandey** and A.K.Srivastava,R.N.Shukla and A.K.Srivastava (1989).leaf protein of some aquatic and semi aquatic weeds. Extend abstracts. Third international conference on leaf protein, research, Italy, p. 267-268.

6. **V.N.Pandey** and A.K.Srivastava (1991). Yield in-vitro nutritional quality of some leguminous seed protein isolates. Plant foods for human nutrition: 41, p. 247-251.

7. **V.N.Pandey** and A.K.Srivastava (1991).Yield and quality of leaf protein concentrates from *Monochoria hastata* (L.) solms. Aquatic Botany: 40,p. 295-299.

8. **V.N.Pandey**, A.K.Pandey and A.K.Srivastava (1991).Effect of pH of leaf extract on leaf protein yield of some aquatic weeds. Comparative physiology and Ecology:16, p. 14-16.

9. **V.N.Pandey** and A.K.Srivastava (1991). Yield and nutritional quality of leaf protein concentrates from *Eleocharis dulcis* (Burm. f.) Hensch. Aquatic Botany: 41,p. 369-374.

10. **V.N.Pandey**,R.N.Shukla and A.K.Srivastava (1990-91). Screening of some Indian legumes for seed protein. Actabotanica Hungarica: 36(1-4),p. 219-228.

11. **V.N.Pandey**, R.M.Yadav and A.K.Srivastava (1992). Nutritive response of albino rats on leaf protein feeding. J. Adv.Zool. : 13 (1&20,p. 36-39.

12. S.Jaiswal,**V.N.Pandey** and A.K.Srivastava (1992).Fungitoxic activity in volatile fraction of some plants against *Aspergillus niger* van Tieghem. Nat.Acad. Sci. Letters: 15(9), p. 283-285.

13. **V.N.Pandey** and A.K.Srivastava (1993). A simple, low energy requiring methods of coagulating leaf proteins for food use. Plant foods for Human Nutrition: 43, p. 241-245.

14. **V.N.Pandey,**R.N.Gupta and A.K.Srivastava (1993). Effect of BGA biofertilizer supplement on growth and yield of rice (*Oryza sativa*) var. Saket-4 Nat. Acad. Sci. Letters:16 (11&12), p.279-284.

15. **V.N.Pandey,**Kamal and A.K.Srivastava (1993). Fungal Biodiversity and its role in biotechnology. Proceedings National Conference on Biotechnology, Tribhuwan University, Kathmandu, Nepal, April 29-30,p. 16-17.

16. **V.N.Pandey** and A.K.Srivastava (1993). Protein content and in vitro nutritional quality of some wild legume foods. Extended abstracts. International symposium on pulses research, IARI, New Delhi, p. 181-182.

17. **V.N.Pandey**(1994). Leaf protein content and yield of some Indian legumes. Plant foods for human Nutrition: 46, p. 313-322.

18. **V.N.Pandey,**R.N.Chaubeand A.K.Srivastava (1994). Effect of coagulation procedures on LPC yield Nat. Acad. Sci. India: 64, Sec-B, Part-III, p.317-320.

19. **V.N.Pandey** and A.K.Srivastava (1994). Fleshy fungi of ethnobotanical food use in North eastern terai region of Uttar Pradesh. Proceeding, National symposium on Mushrooms, solan (HP) April 8-10, p.3-4.

20. **V.N.Pandey** and A.K.Srivastava (1994). Role of BGA-fertilizer in paddy cultivation in east UP .National Symposium on Emerging Technologies in Environmental Conservation Hamdard University, New Delhi, 29-30, p. 5-11.

21. **V.N.Pandey** and A.K.Srivastava (1995). Prevention of cultural heritage in wood and leather by volatile constituents of higher plants. Proceedings of 3rd International conference on Biodeterioratio of cultural property, Bangkok, Thailand, July 3-7, p. 381-386.

22. **V.N.Pandey** and A.K.Srivastava (1995).Composition and in-vitro nutritive value of some leafy vegetables in ethno botanical food use in North Eastern, India. P. 25-28.

23. **V.N.Pandey** and A.K.Srivastava (1996). Polyvalent use of aquatic green biomass for food/feed protein concentrates, bioenergy and microbial fermentation product. Special issue of Hydrobiologia, p. 313-316.

24. **V.N.Pandey,**M.K.Chaurasia and A.K.Srivastava (1996). Effect of drying procedures on digestibility of extracted leaf protein concentrates of *Eleocharis* and *Cyperus* spp. Nat. Acad. Sci. Letters 19 No. p. 11-12.

25. **V.N.Pandey,** M.K.Chaurasia and A.K.Srivastava (1996).Effect of some factors on leaf protein yield. Nat. Acad. Sci. Letters Vol. 19. p. 8-10.

26. V**.N.Pandey**,H.P.Mishra and A.K.Srivastava (1996).J.Liv. World,p. 24-28.

27. **V.N.Pandey** (2002).Yield and nutritional quality of *Ophioglossum reticulatum*: A potential source of leafprotein. J.Liv. World ,p.3-9

28. **V.N.Pandey** (2002).yield and nutritional quality of *Alysicarpus monilifer* DC. J.Liv. World, p.10-14.

29. **V.N.Pandey,**Ishwar das and Surabhi Agrawal (2003). Yield and nutritional quality of *Trianthema monogyna*. Proceedings of National Conference on Biodiversity and *Applied* Biology of plant, Lucknow.37-42.

30. Das,I., Gupta S.K., **Pandey ,V.N.,** Ansari ,Shoeb A. (2004). Inhibition and Dissolution of Calcium oxalate crystals by Berbaris vulgaris Q and other Metabolies. Journal of Crystal growth. 267/3.p. 654-661.

31. **V.N.Pandey (2005).** Malnutrition human health and nutraceutical plants in rural areas.Proceedings of Second Science Awareness Convention. Barhalgang, Gorakhpur.

32. Das.I. Gupta S.K., Ansari, Shoeb A. **Pandey,V.N.,** and Rastogi, R.P.. (2005). In-vitro inhibition and dissolution of calcium oxalate crystals by Berbaris vulgaris Q and other Metabolites. Journal of Crystal Growth, 546-554.

33. **V.N.Pandey**, Nidhi Gupta, A.K.Dwiwedi, A.K.Srivastav and R.K.Pandey (2006)Nutraceutical plants,public health and Environment in North Eastern Terairegion of Uttar Pradesh. SCITECH.OPI – Vol.I, 1-24.

34. Ishwar Das, **V.N.Pandey,** SmritiVerma and ShoebA.Ansari.(2007). In-vitro dissolution of Urinary bladder stone by nutraceutical biofunctional edible plant extracts and metabolites, Indian J. of Biochemistry and Biophysics.

35. M.K.Chaurasia, R.K.Pandey and **V.N.Pandey** (2008). Cultivation of Pleurotus florida on different agro-waste in north eastern terai region of UP. Proceedings of Mushroom Research, Solan, HP 17-27.

36. **V.N.Pandey**, R.K.Pandey, A.K.Dwiwedi, Nidhi Gupta and A.K.Srivastav, Rakesh Kumarand Rakesh Pandey(2009).Invasive alien species v.s. Local plant Biodiversity (FOMEAG Cafeteria: Conservation of endangered plant and Habitats).Proceedings of UP Biodiversity Board, Lucknow.

37. A.K.Dwivedi, Bobby Srivastava and **V.N.Pandey** (2009) Bioprospective and nutraceutical values of *Ipomoea aquatica* Forsk. from North eastern Terai region of U.P. **Radiatio ScienceToday** :8.2

38. A.K.Srivastava ,Nidhi Gupta and **V.N.Pandey** (2009) Free Radical Scavenging activity of Some Underutilized Leafy Vegetables of North-Eastern Terai Region of Uttar Pradesh, India *J. Plant Biol.*, Vol. **36** (3), , pp. 111–114.

39. **V.N.Pandey**,R.K.Pandey, A.K.Dwivedi, Nidhi Gupta and A.K.Srivastava(2010). Nutraceuticals Plants, Public Health and Environment in North Eastern Terai Region of U.P. National conferences on innovations in India Science Engineering & Technology, NewDelhi.

40. **V.N.Pandey**,R.K.Pandey, A.K.Dwivedi, Nidhi Gupta and A.K.Srivastava(2010).Bioprospeciion and Biofunctional Potential of Agricultural Waste and some crop refuses From North Eastern Uttar Predesh. Indian J Agric Biochem 23(2), 116-121.

41. Anup K. Dwivedi and **V.N.Pandey**(2010)Biodiversity and Bio-FunctionalUtilization of Aquatic Weeds of North-Eastern Terai Region of U.P.BiodiversityandEnvironment. A.K.Dwivedi andS.C.Tripathi, LAMBERT, Germany, 96-130.

42. R.C.Ram, **V.N.Pandey** and H.B.Singh (2010)Morphological Characterization ofEdible Fleshy Fungi from different forest divisions. Indian J. Sci.Res.1 (2):33-35.

43. Bobby srivastava, A.K.Dwivedi and **V.N.Pandey**(2011) Ethnobotanical**,** Survey, Distribution and Utilization of Termitomyces species in Gorakhpur forest division.Plant Sciences Feed 2011 - 1 (2): 19- 22.

44. A.K.Srivastava ,Nidhi Gupta and **V.N.Pandey** (2011) Ethnobotanical Utilization and Biological Activity of Some Underutilized Leafy Vegetables Biotic Potential and Abiotic Stess Eds.A.K.Dwivedi,Malvika Srivastava and V.N.Pandey LAP LAMBERT Academic Publishing.

45. Bobby Srivastava, A.K.Dwivedi and**V.N.Pandey**(2011).MorphologicalCharacterization and Yield Potential of*Termitomyces spp.* Mushroom in Gorakhpur forest Division Bulletin ofEnvironment, Pharmacology and Life Sciences**.**Volume 1, Issue 1, December 2011: 54 – 56.

46. A.K.Dwivedi and **V.N.Pandey**(2011) Ethnobotanical Survey of aqutic plantdiversity in North Eastern Terai Region of Uttar Pradesh.Flora and Fauna.Vol.17 p191-200.

47. Bobby srivastava, A.K.Dwivedi and **V.N.Pandey**(2012). Sociobiology and Natural Adaptation of Termite and Termitomyces in different forest division of Gorakhpur Region. Bulletin of Environment Pharmacology and Life Sciences. Volume 2, Issue 1, December 2012: 32 – 36.

48. Nidhi Gupta,A.K.Srivastava and **V.N.Pandey** (2012). Biodiversity and Nutraceutical Quality of Some Indian Millets. Proc.Natl.Acad.Sci.Sect B. Biol.Sci.June 2012, Volume 82, Issue 2, pp 265-273.

49. Ram Chandra, **V.N.Pandey** and H.B.Singh (2013) Collection and identification of edible fleshy fungi from different forest locations. Journal of Eco-friendly Agriculture 8(2) 185-188: 2013.

50. Neeharika Dubey , **V.N. Pandey** and S. K. Tewari .(2013)Antioxidant potential and phytochemical composition of unripe fruits of *Flacourtia jangomas* (Lour.) Raeusch **Medicinal Plants**-International Journal of Phytomedicines and Related Industries **5**:3,**164- 167.**

51. Ram Chandra, **V.N.Pandey** and H.B.Singh (2013) Edibility test and flavor of collected edible fleshy fungi from different forest regions. Journal of Eco-friendly Agriculture 8(2) 194-195: 2013.

52. Neehrika Dubeyand**V.N.Pandey**(2013) FerricReducing Powerof Solvent Extractsof Fruits of*Floucortiajangomas* (LOUR.) RAEUSCH **Life SciencesLeaflets**p.66-71.

53. Neeharika Dubey and **V.N.Pandey** (2013). Ethnobiologica importance of *Flacourtia jangomas*(Lour.)Raeusch. Trends in Biosciences 6(5). pp. 532-534.

54. Neeharika Dubey and **V.N.Pandey** (2013). Reducing activity of fruits of *Flacourtia jangomas* (Lour.)Raeusch. Advances in Life Sciences **2**:2**82- 83.**

55. R.C. Ram, **VN Pandey** and HB Singh (2013) Comparison of growth behavior and yield potential of *Pleurotus* spp. Mushroom research 22 (2): 101-104, 2013.

56. Richa srivastava and **V.N.Pandey**(2013). An updated Review on *Xeromphis uliginosa*: An underutilized Plant. International Journal of Pharmaceutical Sciences Review and Research (IJPSRR

57. Nidhi Gupta,A.K.Srivastava and **V.N.Pandey** (2013). Free radical scavenging activity of Fagopyrum esculentum Moench. Seed and seed protein concentrates extracted by different procedures, *Journal of Environmental Science, Toxicology and Food Technology*, **5** (3):13-18.

58. Neeharika Dubey and **V.N.Pandey**(2014). Paniala: Ek bahupayogi paudha. **Aawishkar**, Vol .44(2): pp. 22-23.

59. Rakesh Pandey and **V.N.Pandey** (2014). More food legumes. IndianJournal of Applied Research, Volume 4, Issue 7, pp 47-48

60. Rakesh Pandey and **V.N.Pandey** (2014). Protein Concentrates of some legumes plants from the North Eastern UP.International Journal of Pharma and Bio SciencesVolume 3, Issue 7, pp 43-44 July 2014

61. Alka Guptaand**V. N. Pandey**(2014). Herbalremedies of aquaticmacrophytes of Gorakhpur , UttarPradesh (INDIA) . Int J Pharm Bio Sci 2014 Jan; 5(1): (B) 300 – 308

62. Alka Gupta and **V. N. Pandey**(2014). Qualitative evaluation of metabolites fron the seed and tuber of *NymphaeaNaucheli*BURM.

63. **V. N. Pandey** and Neeharika Dubey (2014). Nutraceutical, Pharmaceutical and Industrialvalue of coffee plum*Flacourtijangomas*(lour.) raeusch**Everyman's Science**VolXLIX No.

64. Jayendra Nath Singh, Manjulla Srivastava, S.C. Tripathi and V.N. Pandey (2015). Flora and Fauna, 21 (1):21-23.

65. Anil Kumar and V.N. Pandey (2015).Diversity and Nutraceutical Potential of nuts and Pseudonuts in North-Eastern Terai region of Uttar Pradesh, J. Liv. World, 22(1,2):1-11.

66. Anil Kumar and V.N. Pandey (2015). Ethnobotany of Nuts and Pseudonuts in North-Eastern Terai region of Uttar Pradesh, J. Liv. World, 22(1,2):12-24.

67. Neha Tiwari and V.N. Pandey (2016). Ethnobotanical and phytochemical analysis of *Schleichera oleosa* (lour.) oken, **Trends in Life Sciences**, 5 (2):12-22.

68. Richa Srivastava, V.N. Pandey, A.K. Srivastava, B.M. Tripathi, C. Ravindran (2016). Need of effective communication for popularization of underutilized fruits, Proceedings of National workshop on paper writing and effective communication, 145-148.

69. Richa Srivastava, V.N. Pandey, A.K. Srivastava, Vaibhav S. Pandey (2016). Approaches for popularization of Xeromphis ulginosa:an ethnonutraceutical underutilized plant, Proceedings of National workshop on paper writing and effective communication 149-151.

II)Book Chapters:

70. Anup K.Dwivedi and **V.N.Pandey** (2010)Biodiversity and Bio-FunctionalUtilization of

Aquatic Weeds of North-Eastern Terai Region of U.P.Biodiversity and Environment. A.K..Dwivedi andS.C.Tripathi, LAMBERT, Germany, 96-130.

71. A.K.Srivastava ,Nidhi Gupta and **V.N.Pandey** (2011) Ethnobotanical Utilization and Biological Activity of Some Underutilized Leafy Vegetables Biotic Potential and Abiotic Stress Eds.A.K.Dwivedi,Malvika Srivastava and V.N.Pandey LAP LAMBERT Academic Publishing.

72. **V.N.Pandey** (2013) Industrial Value of Plant andPlant Productsand their ConservationInterdisciplinary Advances in Geography.Editors PR Sharma, RS Yadav and VNSharma .R.K.Books, New Delhi.

73. **V.N.Pandey** (2013) Biodiversity of Biofunctional Plants: Utilization and Conservation. Interdisciplinary Advances in Environmental and Earth Systems Studies. R.K.Books, New Delhi**.**

74. **V.N.Pandey,** Sharad Mishra**,** A.K.Srivastava and Nidhi Gupta (2014) Antioxidants Potential of Marine Microorganisms. **CABI Publication**, UK.

III) Paper published in Proceedings/Abstracts/ Communicated

75. M.K.Chaurasia, **V.N.Pandey** and A.K.Srivastava(1996).Utilization of lingo cellulosic agro waste as substrates for cultivation of *Volvoriella volvacea* 27th Annual meeting of Mycological society of India and international symposium on fungal diversity and disease in south east Asia, Gorakhpur.

76. **.V.N.Pandey** and A.K.Srivastava (2001).Yield and quality of protein concentrates *Alternanthera sessilis* L. International symposium on frontiers of India and International symposium on frontiers of fungal diversity and disease in south east Asia, Department of Botany , University of Gorakhpur, Gorakhpur, 9-11 Feb. 2001.

77. **V.N.Pandey** and A.K.Srivastava(2002). Composition and nutritive value of aquatic plants in ethnobotanical food used in North Easter Terai Region of UP.

78. **.**B.M.Tripathi, **V.N.Pandey** and R.K. Pandey (2002).leaf protein concentrate from aquaticmacrophytes as a potential source for fish culture. Hydrobiologia

79. **.V.N.Pandey**, R.K.Pandey and A.K.Srivastava(2003). Nutraceutical food folate potential of some leafy vegetables in ethnobotanical food use from North Eastern India. Warsawa, Poland.

80. .Ishwar Das, **V.N.Pandey,** and Sujeetgupta (2004).In-vitro inhibition of calcium oxalate crystallization of *Trianthema monogyna* extracts and biological metabolite.

81. .Ishwar Das, Sujeet Kumar Gupta and **V.N.Pandey,** Shoeb Ahmad Ansari (2004).VanaspatiyonkaPatharike nidaan maie Upayog. Tritiya Bhartiya Vigyan Sammelan.

82. **V.N.Pandey**, R.N.Gupta, M.K.Chaurasia and R.K.Pandey (2004). Nutraceuticals and bioenergetic potential of aquatic macrophytes in ethnobotanical food use of North eastern terai region of UP India, Total food, Norwich, UK.

83. **V.N.Pandey** and R.K.Pandey (2006).Yield and nutritional quality of some crop refuses and their utilization. International conference on post-harvest technology and value addition in cereals, pulses and Oilseeds & tenth convention of the society of agricultural Biochemists, Kanpur, India.

84. **V.N.Pandey**,R.K.Pandey, A.K.Dwivedi, Nidhi Gupta anA.K.Srivastava(2006). Nutraceuticals plants, public health and environment in north eastern terai region of UP National conferences on innovations in India science engineering & technology, New Delhi.

85. **V.N.Pandey**,R.K.Pandey, A.K.Dwivedi,A.K.Srivastavaand Nidhi Gupta (2006). Non nutrient biofunctional phytochemicals in health care of leguminous plants and humanity annual meeting of Indian Phytopathological society (MEZ) & National Symposium on Microbial Diversity and Plant Health Problems , Gorakhpur, India.

86. **V.N.Pandey**,R.K.Pandey, A.K.Dwivedi,A.K.Srivastavaand Nidhi Gupta (2006). Non nutrient biomolecules of some pseudocereals and Millets. Annual meeting of Indian Phytopathological society (MEZ) & National Symposium on Microbial diversity and Plant Health Problems, Gorakhpur, India.

87. **V.N.Pandey**, A.K.Srivastava, R.K.Pandey, A.K.Dwivedi and Nidhi Gupta (2006).Leaf protein yield and potential of some leafy vegetables. Annual meeting of Indian Phytopathological society (MEZ) & National Symposium on Microbial Diversity and Plant Health Problems, Gorakhpur, India.

88. **.V.N.Pandey**, A.K.Dwivedi, A.K.Srivastava R.K.Pandey and Nidhi Gupta (2006).Non nutrient biomolecules of some ethnobotanicallly used aquatic plants of north eastern terai region of UP.Annual meeting of Indian Phytopathological society (MEZ) & national symposium on Microbial diversity and plant health problems , Gorakhpur, India.

89. .Ishwar Das, **V.N.Pandey,** SmritiVerma and ShoebA.Ansari (2007). In-vitro dissolution of Urinary bladder stone by nutraceutical biofunctional edible plant extracts and metabolites, Indian J. of Biochemistry and Biophysics.

90. M.K.Chaurasia, R.K.Pandey and **V.N.Pandey** (2007). Cultivation of Pleurotus florida on different agro-waste in north eastern terai region of UP. Mushroom Research, solan, HP.

91. **V.N.Pandey** (2007) Fomeage Cafeteria, World Biodiversity Day Conference organized by UP Biodiversity Board, Lucknow. 22 May, 2007.

92. Abhai K Srivastava and **V.N.Pandey (**2008). Ethnobotanically used leafyvegetables of North Eastern Terai region of U.P. All India Botanical Conference on Plant Biology andEnvironment:Changing Senario.Dec.17-19, Allahabad.

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94. R.K.Pandey and**V.N.Pandey** (2009) Mucuna pruriens(L.)DC: Potential Ethnobotanically used nutraceutical plant. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan.30-31, Department of Botany, DDU Gorakhpur University, Gorakhpur.

95. Nidhi Gupta and **V.N.Pandey** (2009) Pseudocereal based fuctional food and nutraceuticals. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan.30-31,Department of Botany, DDU Gorakhpur University, Gorakhpur

96. Sudha Pandey Abhai K Srivastava and **V.N.Pandey** (2009) Yield and nutraceutical potential of some leafy vegetables in in North Eastern Terai region of Uttar Pradesh. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan. 30-31, Department of Botany, DDU Gorakhpur University, Gorakhpur.

97. **V.N.Pandey** (2009) Fomeage Cafeteria: Conservation of Biodiversity and Biodiversity-Climatic link. National Conference on Environmental Pollution and Climate Change.Deg.18-19, 2009. Varanasi.

98. **.V.N.Pandey** (2010) Interface of Biology and Chemistry: Phytochemistry, antioxidant and nutraceuticals. National Conference on Frontier areas of Chemical Sciences. 20-21 March St. Andrews College, Gorakhpur.

99. A.K.Dwivedi and **V.N.Pandey** (2010) Radical scavenging activity leaf protein extract Ipomoea aquatic by using DPPH assay. National Conference on Frontier areas of Chemical Sciences. 20-21 March St. Andrews College, Gorakhpur.

100. **.V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2010) Biochemical composition and antioxidant activity of some nutraceutical plants of North Eastern Terai region of U.P., India. National Conference of PlantPhysiology.25-27 Nov.2010, BHU, Varanasi.

101. **V.N.Pandey** (2011)Biodiversity, sustainable utilization and conservation ofmedicinal and nutraceutical plants of North Eastern Terai Region of U.P.,India.National Conferenc on Climate Change and Biodiversity,21-22Jan.DepartmentofBotany, SVMMPG College Gorakhpur.

102. .Abhai K Srivastava, Nidhi Gupta and **V.N.Pandey**(2011)Nutritional evaluation and amino acid Composition if leaf meal from Talinum triangular. National Conference on Climate Change and Biodiversity, 21-22 Jan. Department of Botany, SVMMPG College Gorakhpur.

103. **V.N.Pandey** (2011) Plant Biodiversity, Utilization, Conservation of Biodiversity-Climate link North Eastern Terai Region of U.P. National Conference on Biodiversity: Challenges and Opportunities .Department of Botany, M D University, Rohtak.

104. **V.N.Pandey** (2011) VI Nutra India Summit,Feb.15-18,2011, Mumbai.

105. **V.N.Pandey** (2011) Biodiversity of Biofuctional Plants: Utilization and Conservation. National Seminar:Recent Advances in the Development of Geographical Knowledge and its Interdisciplinary Association with Sciences Nov. 3-4,BHU,Varanasi.

106. **V.N.Pandey** (2011) Nutraceutical Plant Biodiversity Utilization andConservation ofBiodiversity-Climate link North Eastern Terai Region of U.P. Environmental

Degradation vis-à-vis Biodiversity Conservation.05-06 Nov.MLK PG College, Balarampur, U.P.

107. **V.N.Pandey** (2011) National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

108. **.** Anil Kumar and **V.N.Pandey** (2011) Ethnobotany of Nuts and Pseudonuts in North-Eastern Terai Region of Uttar Pradesh.National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

109. J.N.Singh and **V.N.Pandey** (2011) Ethnomedicinal Plants of Gorakhpur Region..National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

110. Abhai.K.Srivastav, Nidhi Gupta and **V.N.Pandey** (2011) Effect of Extraction Procedure on Trypsin Inhibition Activity (TIA) of Leaf Protein Concentrates.National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur

111. Nidhi Gupta, A.K.Srivastav and **V.N.Pandey** (2011) Study of Radical Scavanging Activity in Seed Protein Concentrates (SPC) of Fagopyrum esculentum Moench. Extracted by different Procedures..National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

112. Vandana Chauhan, P.P.Upadhyaya and **V.N.Pandey** (2011) Ethnobotanical Utilization of of *Moringa olifera* Lam.National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

113. Neeharika Dubey, Dr.S.K.Tiwari and**V.N.Pandey** (2011) Biofunctional Study of a Nutraceutical Plant *Flacortia jangomas*: An Endemic Plant of North Eastern Terai Region of U. P.National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

114. Rakesh Pandey and **V.N.Pandey**(2011) Characterization of Biofunctional Parts of Wild Leguminous Plants From The North Eastern Terai Region of U. P.National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

115. Alka Gupta and **V.N.Pandey**(2011) Ethnobotany and Distribution of Aquatic Plants of North Eastern Terai Region of U. P..National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

116. R.C.Ram,**V.N.Pandey**and H.B.Singh(2011) Collection and Identification of Edible Mushrooms from Different Forests Locations.National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

117. R.C.Ram,**V.N.Pandey**and H.B.Singh(2011) Comparative Evaluation of Substrates From Growth Behaviour and Yield Potential of Milky Mushroom (Calocybe indica) P.C..National Conference on Biodiversity: Changing Patterns and Conservation Strategies.Nov.26-28 Nov. Department of Botany, DDU Gorakhpur, University Gorakhpur.

118. **V.N.Pandey** (2011) Biodiversity ,Utilization and Conservation of Ethnomedicinalplants of North Eastern Terai Region of U.P. India .XXI Annual Conference of Indian Association for Angiosperm Taxonomy and National Seminar on Biodiversity Conservation and Climate Change (BCCC 11),Dec.2-4,Bhubaneshwar Odisha,

119. **V.N.Pandey** (2011) Environmental Degradation and Suggestive Measures forSustainable Development of Plant Biospecific Regions of India.NationalConference on Environmental Degradation and Suggestive Measures.Dec. 17- 18, Varanasi.

120. Anil Kumarand **V.N.Pandey** (2011) Diversity and Nutraceutical Potential of Nuts and Pseudo nuts in North-Eastern Terai Region of Uttar Pradesh. National Conference on Biotechnology Department of Botany, DDU Gorakhpur University Gorakhpur.

121. **V.N.Pandey** (2012) Ethnonutramedicinal Plants

122. **V.N.Pandey** (2012) Fomeag Cafeteria: A New Hope for Biotechnology, Nutraceuticals, Biodiversity Conservation and Biodiversity Climatelink.Plant Science Section,Symposium of Congress. Indian Science Congress Association,.Jan. 3 - 7 , Bhubneswar.

123. Anil Kumarand**V.N.Pandey** (2012) Distribution Utilization and Ethnobotany of Nuts and Pseudonuts in North-Eastern Terai Region of Uttar Pradesh. Plant Science Section,Symposium of Congress. Indian Science Congress Association, Jan. 3 - 7, Bhubaneswar.

124. **V.N.Pandey**and J.N.Singh (2012) Ethnonutramedicinal Plants of Gorakhpur Region.Plant Science Section,Symposium of Congress. Indian Science Congress Association, Jan. 3 - 7, Bhubaneswar.

125. A.K. Dwivedi*, Bobby Srivastava and**V.N.Pandey** (2012) Ethnobotanical Survey and Biofunctional Utilization of Some Aquatic Plants in North Eastern Terai Region of Uttar Pradesh Plant Science Section,Symposium of Congress. Indian Science Congress Association,.Jan. 3 - 7 , Bhubneswar.

126. Vandana Chauhan, **V.N.Pandey**and P.P.Upadhyaya (2012) Nutraceutical Potential of *Moringa olifera* Lam.Plant Science Section,Symposium of Congress. Indian Science Congress Association,.Jan. 3 - 7 , Bhubneswar.

127. A.K.Srivastav, Nidhi Gupta and **V.N.Pandey** (2012) Bioprospection of Underutilized Green Leafy Vegetables for Prevention of Protein-Folate Malnutrition.Plant Science Section,Symposium of Congress. Indian Science Congress Association,.Jan. 3 - 7 , Bhubneswar.

128. Alka Gupta and **V.N.Pandey** (2012) Nutraceutical Potential of Some Aquatic Plants in North Eastern Terai Region of U. P.Plant Science Section,Symposium of Congress. Indian Science Congress Association,.Jan. 3 - 7 , Bhubneswar.

129. Neeharika Dubey and **V.N.Pandey** (2012) Ethnonutraceutical Value of Coffe Plum (*Flacortia jangomas*): An Endemic Plant of North Eastern Terai Region of U. P.Plant Science Section,Symposium of Congress. Indian Science Congress Association,.Jan. 3 - 7 , Bhubneswar.

130. **V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2012) **Biofunctional Food Security by Metabolic Products of Some NutraceuticalPlants**.International Conference on Plant Biotechnologyand Food Security,IARI New Delhi.21-24 Feb.2012.

131. **V.N.Pandey**(2013)Biodiversity, Plant Resource Utilization and Conservation. National Seminar on Biodiversity: Ecological Security and Sustainable Utilization of Natural Resources, Dept. Of Botany,Bipin Bihari CollegeJhansi, U.P. March 8-10.

132. **V.N.Pandey**(2013) Medicinal Plants of India.XXXVII All India conference of the Indian Botanical Society**,** Organized by Dept. Of Botany, DDU Gorakhpur University Gorakhpur.18-20Oct.

133. Anil Kumar and**V.N.Pandey** (2014).Soapnut (*Sapindus emarginatus*):Phytochemistry and Biofuctional Potential. XXXVII All India conference of the Indian BotanicalSociety**,** 07-09 Nov. Organized by Dept. Of Botany, **Vaze College** Mulund(E), Mumbai

134. A.K.Srivastav, Nidhi Gupta and **V.N.Pandey** (2014). Thiobarbituric acid assay of *Tallinum triangulare*leaves at different maturity stages and different time intervals..XXXVII All India conference of the Indian BotanicalSociety**,** 07-09 Nov. Organized by Dept. Of Botany, **Vaze College** Mulund(E), Mumbai.

135. Nidhi Gupta, A.K.Srivastav and **V.N.Pandey** (2014).Extraction of Polyphenols from Euryale ferox seed coats and its antioxidant assay andα – amylase inhibition activity. **XXXVII** All India conference of the Indian BotanicalSociety**,** 07-09 Nov. Organized by Dept. Of Botany, **Vaze College** Mulund(E), Mumbai.

136. Nidhi Gupta, A.K. Srivastava and **V.N. Pandey** (2014). "Free radicalScavenging activity of different solvent extracts of *Euryale ferox* Salisb. Seeds." 101thsession of the Indian Science Congress at Jammu. Under plant sciences section in Indian Science Congress- 3-7 Jan. 2014.

137. Nidhi Gupta, A.K. Srivastava and **V.N. Pandey** (2014)."Nitric Oxide Radical Scavengingactivity in different Biofunctional plant parts of *Euryale ferox*Salisb. International conference on Frontier discoveries and emerging opportunities in life sciences (FDEOLS-2014). Organized by Deptt of Biotechnology,Dr. HarisinghGour University, Sagar M.P. Feb 13-15, 2014.

138. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey**(2014). "Qualitative estimation of phytochemicals from Mature seeds and popped seeds of *Euryale ferox*Salisb." National Seminar on Science and Innovation, Focal Theme: Science for Rural India. On 14th Feb, 2014 in BRDPG College Deoria U.P. Organized by SwadeshiVigyanSansthanam U.P. Chapter of &VigyanBharati.

139. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey** (2014). **"**Quantitative estimation of Total polyphenol and Flavonoid content in mature sun dried raw and popped seeds of *Euryale ferox*Salisb." National conference on conservation, Characterization and cultivation of medicinal plant for sustainable utilization and community welfare. Held at Pondicherry University. Puducherry, 23rd-25th Feb, 2014.

140. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey** (2014). "Reducing power ability of leaves, mature seeds and popped seeds of *Euryale ferox*Salisb." 20th ISCB International conference on chemistry and medicine for healthcare organized by Deptt. Of Chemistry, University of Delhi, 1st-4th March, 2014.

141. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey** (2014). "Thiobarbituric acid assay of different plant parts of *Euryale ferox*Salisb. at different time interval" National conference on Environmental constraints, conservation and resource development of medicinal plant for health and societal benefits. Held at Doon University, Dehradun. 21st-23rd March 2014.

142. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey** (2014). "A comparative study of Hydrogen peroxide scavenging activity in leaves and seeds of *Euryale ferox*Salisb. National Seminar on Recent trend in Microbiology, Held at DDU Gorakhpur University, Gorakhpur, U.P., India, 15 March, 2014.

143. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey** (2014). "A Comparative study of total antioxidant activities of mature and popped seed of *Euryale ferox*Salisb" National Conference on CURRENT ISSUE IN ZOOLOGY AND ENVIRONMENTAL SCIENCES" March 24, 2014 at Zoology Department , Marwar Business School, Gorakhpur, India.

144. Nidhi Gupta**,** A. K. Srivastava and **V.N. Pandey** (2014). "Free radical scavenging activity and phytochemical contents of *Euryale ferox*Salisb. collected from different water reservoir" National conference on Advances in Biological Sciences Held at Department of Botany, Marwar Business School, Gorakhpur, India, 29 March, 2014.

145. Anita Rao and V.N. Pandey(2015). "Phytochemical and Bioactive compounds of *Sagittaria sagittifolia* L." Indian Botanical Society. Held at Department of Botany , University of Rajasthan.

146. Neha Tiwari and V.N. Pandey(2015).Botanical and Biofunctional Characterization of *Schleichera oleosa* (Lour.) Oken. Indian Botanical Society. Held at Department of Botany, University of Rajasthan.

147. Shipra Pandey and V.N. Pandey(2015). Biosystematics and Taxonomy of representative genus *Dillenia indica* L. Indian Botanical Society. Held at Department of Botany, University of Rajasthan.

148. Vageshwari and V.N Pandey(2015). Nutraceutical Power Potential of *Trapa bispinosa* Roxb. Botanical Society. Held at Department of Botany, University of Rajasthan

149. Vineeta Singh and V.N. Pandey(2015). Ethnobotanical characterization and Therapeutic uses of *Mimusops elengi* L. Indian Botanical Society. Held at Department of Botany, University of Rajasthan.

Seminars/Symposia/Conference/workshop Attended:

International:

150. **V.N.Pandey,International conference** of plant physiologist of the SAARCcountries on the role of plant physiology in crop productivity held in the Department of Botany DDU Gorakhpur University, 20-23Dec. 1987.

151. **V.N.Pandey** and A.K.Srivastava. (1991) Fungitoxicity of volatile plant product against red rot fungus ISSCI 3rd Sugarcane Pathology Workshop. **Reduit, Mauritius,**22-26 July, 1991.

152. **V.N.Pandey (**1992**)** Yield of nutritive value of leaf protein of aquatic weeds from North India. International symposium on the Biology and Management Plant. **Florida, USA**. 12-16 July, 1992.

153. **V.N.Pandey** and A.K.Srivastava(1993).Yield of nutritive value of some leafy vegetables from North India. Fourth International Conference on leaf protein research. **Newzeland and Australia**, 10-24 Feb 1993. (Not attended).

154. **V.N.Pandey,** Kamal and A.K.Srivastava(1993).fungal bio-diversity and its role in biotechnology, National conference on Biotechnology, Tribhuwan University, **Kathmandu, Nepal,**29-30 April 1993.

155. **V.N.Pandey** and A.K.Srivastava(1993).protein content and in-vitro nutritional quality of some wild leguminous seeds. **International conference** on pulses research. Directorate of Pulse research, New Delhi, 2-6 April 1993.

156. **V.N.Pandey** and A.K.Srivastava (1994).Polyvalent use of Aquatic green **biomass** for food/feed protein concentrate, bioenergy and microbial fermentation product. 3rd International symposium on aquatic weeds.**Dublin, Ireland** 12-16 Sep 1994.

157. **V.N.Pandey** and A.K.Srivastava (1995).Composition and in-vitro nutritive value of some leafy vegetables in ethnobotanical food use in North Eastern India.

International Conference on Agric Food Quality. University of East Anglia, Norwich, UK, 25-28 June, 1995.

158. **V.N.Pandey** and A.K.Srivastava(1995).Prevention of cultural heritage in wood and leather by volatile constituents of higher plants. Reprints of 3rd International conference on Biodeterioration of cultural property. **Bangkok, Thailand**.3-7 July 1995.

159. **V.N.Pandey** and A.K.Srivastava (1995).food/feed use of aquatic macrophytees of North Eastern Uttar Pradesh, India. **15th International symposium** on lake reservoir and watershed management, Toronto, Canada,Toronto, Canada 6-11 Nov 1995.

160. V.N.Sharma,**V.N.Pandey ,**B.M.Tripathi and A.K.Srivastava (1995).Depletion of Ramgarh lake consequent dangers to flora and fauna and remedies. **15th International symposium** on Lake Reservoir and watershed management,Toronto, Canada, 6-11 Nov 1995**.**

161. **V.N.Pandey** (1997)**4th** International conference on reservoir limnology and water quality organized by Hydrological academy of sciences Czech Republic. Czech Busejovice, **Czech Republic.**11-15 Aug.1997. (not attached).

162. M.K.Chaurasia,**V.N.Pandey** and A.K.Srivastava (2001).Utilization of lingocellulosic agrowastes as substrates for cultivation of *Volvariella volacea* .27th annual meeting of Mycological society of India and **International symposium** on frontiers of India and International symposium on frontiers of fungal diversity and disease in south east Asia, Department of Botany , University of Gorakhpur, Gorakhpur, 9-11 Feb. 2001.

163. **V.N.Pandey,** R.K.Pandey and A.K.Srivastava (2004) Nutraceutical food folatepotential of some leafy vegetables in Ethnobotanical food use from North eastern India 11-14 Feb. **Warsaw, Poland,** 11-14 Feb., 2004 (Not attended).

164. A.K.Srivastava and **V.N.Pandey** (2008) *Alternenthera* spp.A potent leafyvegetable **International Seminar** on Role of Plant Taxonomy in Biodiversity Management and Human Welfare.Dec.1-3,FRI, Dehradun.

165. R.K.Pandeyand **V.N.Pandey**(2008) Nutritional Potential of some biofunctional legumes in North Eastern Terai region of U.P.All India Botanical Conference on Plant Biology and Environment:Changing Senario.Dec.17-19, Allahabad.

166. **V.N.Pandey** (2010) Biosystematics, Utilization and Conservation of ethnobotanical plants of North Eastern Terai region of U.P., India.XI **IOPB Conference**,02- 04 Sept.2010,Aurangabad.

167. **V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2010) Biodiversity an Conservation of ethnobotanical plants of North Eastern Terai region of U.P., XXXII Conference of Indian Botanical Society and **International Symposium** on the New horizon of Botany. Shivaji University, Kolhapur, 10-12 Nov.2010.

168. **V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2010) Biodiversity and Bioprospection of ethnomedicinal and nutraceutical plants of North Eastern Terai region of U.P. **International conference** on Challengingand

Emerging Dimension in Medicinal/Herbal Plants and their Products: A Global Perspective. Chennai Trade Centre, Chennai, 26-28 Nov.2010**.**

169. **V.N.Pandey** (2010) Medicinal plants in the forests conservation strategy. **International Conference** on Challenging and Emerging Dimension in Medicinal/Herbal Plants and their Products: A Global Perspective. Chennai Trade Centre, Chennai, 26-28 Nov.2010.

170. Richa Srivastava and **V.N.Pandey** (2010) Bioprospection of an underutilised ethnonutraceutical plant *Xeromphis uliginosa* Retz.Maheshwari**. International Conference**on Challenging and Emerging Dimension in Medicinal/Herbal Plants and their Products:A Global Perspective. Chennai Trade Centre, Chennai, 26-28 Nov.2010.

171. Bobby Srivastava, A.K.Dwivedi and **V.N.Pandey** (2010) Ethnobotanical survey of potential mushroom Termitomyces in Gorakhpur region. **International Conference** on Challenging and Emerging Dimension in Medicinal/Herbal Plants and their Products: A Global Perspective. Chennai Trade Centre, Chennai, 26-28 Nov.2010.

172. **V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2012) BiofunctionalFood Security by Metabolic Products of Some Nutraceutical Plants.**International Conference** on Plant Biotechnology and Food Security: New Frontiers, IARI New Delhi.21-24 Feb.2012.

173. **V.N.Pandey** (2013) **International conference** on Harmony with nature in context of Ecotechnological intervention and climate change. (HARMONY-2013). Department of Zoology, Biotechnology and Environmental Science DDU Gorakhpur University, Gorakhpur in collaboration with National Environmentalists Association. 11-13 Nov.

174. **V.N.Pandey** (2014) **International conference** on Frontier Discoveries and Emerging Opportunity in Life Sciences held at Dr. Harisingh Gaur University, Sagar, M.P., India, 13-15 Feb, 2014.

175. **V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2015) Wild Germplasm for BiofunctionalFood Security by Metabolic Products of Some Nutraceutical Plants. **International Conference** on Gene Harnessing andBiotechnology for Food SecurityIARINew Delhi.09-11 Aug.2015.

176. **V.N.Pandey**, (2015) Challenges and Strategies in Plant Biology Research. **3rdInternational Plant Physiology Congress** Convention Center JNU New Delhi.Dec.11-14,2015.

177. **V.N. Pandey (2016).** Fomeag Cafetaria: A new global perspective towards utilization, Conservation of Biodiversity and Biodiversity- Climate Link. Botany 2016, Savannah, Georgia, July 30-August 3, 274.

National

178. **V.N.Pandey** and A.K.Srivastava. (1988)Veronica anagalis aquatic L. A potential source of leaf protein, Indian Botanical Society. Nagpur, 1988.

179. **V.N.Pandey,** A.K.Pandey, R.N.Shukla and A.K.Srivastava (1988).Leaf protein concentrates from Cyperaceae of Gorakhpur. Presented in 2ndconvention of SGVR. Kanpur, 22-24 Oct., 1988.

180. **V.N.Pandey** and A.K.Srivastava.(1989)Temporal variation in protein content and yield of Vignamungo L. Hepper leaves. Presented in the symposium of society for plant physiology held at CSA Universityof AgricultureAnd Technology, Kanpur, 22-24 Jan., 1989.

181. S.Jaiswal,**V.N.Pandey** and A.K.Srivastava (1989), Extern cellular enzyme productivity of a strain of Aspergillusniger van Tieghem. 29th annual conference of association of microbiologists of India, Hisar, Haryana, 9-11 Feb., 1989.

182. **V.N.Pandey** and A.K.Srivastava,(1989) effect of some Agronomic factors on leaf protein yield. 3rd convention on SGVR. Gorakhpur, 10-12 Dec., 1989.

183. **V.N.Pandey** and A.K.Srivastava.(1989)Effect of Coagulation procedure on LPC yield.3rd convention on SGVR. Gorakhpur, 10-12 Dec.

184. **V.N.Pandey**(1989)growth promotion of Vignamungo (L.). Hepper seedlings by aqueus extract of fleshy fungus *Clavulinopsisflorideus*Berk and Br. National seminar onstrategies in physiological regulation on plant productivity. Bombay, 27-29 Dec.

185. **V.N.Pandey(**1991) National symposium on Mushrooms organized by Kerala agricultureal university in collaboration with the mycological society of India. Trivendrum, 22-24. Jan.

186. **V.N.Pandey,**V.P.Pandeyand A.K.Srivastava(1991) protein nutritive valueof pea seeds CMV infection. National symposium on current trends in taxonomy of phytopathogenic Microorganisms and other aspects of plant pathology. Gorakhpur, 27-28 Jan.

187. V.N.Sharma, V.N.Pandey and G.P.Rao (1991)Effect of Industrial pollution and workshop on industrial pollution in eastern Uttar Pradesh. Gorakhpur, 27-29 April.

188. A.K.Pandey and V.N.Pandey(1991) Effect of sewage effluents of city on flora and fauna of Gorakhpur, 27-29 April.

189. **V.N.Pandey,**V.P.Pandeyand A.K.Srivastava (1993) Effect of BGA-biofertilizer, Opium effluent and NPK on vegetative growth and pigment content off Oryza sativa. National Conference on advances in Molecular and plant physiological researches in crop Improvement. N.D.University of Agriculture& Technology. Kumarganj, Faizabad, 22-25 Feb.

190. **V.N.Pandey** and A.K.Srivastava (1994) whey as suitable medium for production of microbial biomass and other products. National symposium on biodiversity and plant disease management Univ. of Gorkahpur. Gorakhpur, 18-19 Jan

191. **V.N.Pandey**M.K.Chaurasiaand A.K.Srivastava (1994) Nitrogen and protein content from some species of Termitomyces. National symposium on Biodiversity and plant disease management. University of Gorkahpur. Gorakhpur, 18-19 Jan.

192. **V.N.Pandey** and A.K.Srivastava. (1994) Role of BGA- Biofertilizer in Paddy Cultivation inEast UP. 29-30 March 1994. National Symposium on Emerging Technologies in Environmental Conservation. Hamdard University, New Delhi. New Delhi, 29-30march.

193. **V.N.Pandey** and A.K.Srivastava.(1994)Fleshy Fungi of Ethnobotanical use in North Eastern Terai Region of UP. National symposium on Mushrooms. Solon, HP, 8-10 April

194. M.K.Chaurasia, **V.N.Pandey** and A.K.Srivastava (1994)Protein Nutritive Value of Some Species of Termitomyces, National symposium on Mushrooms. Solon, HP, 8-10 April

195. **V.N.Pandey** (1996) National symposium on plant pathogens and current trends in plant disease management, Gorakhpur, India, Gorakhpur,

196. **V.N.Pandey** and A.K.Srivastava. (1998)Yield and quality of protein concentrates of Alternanthera sessilis L. National symposia on role of plant physiology and Biotechnology in agriculture and industry, Osmania University, Hyderabad, 14-16 Feb.

197. **V.N.Pandey**(1998) National symposium on plant diversity and bioresource management Gorakhpur, .

198. **V.N.Pandey(**2001) International symposium on frontiers of fungal diversity and disease of south East Asia. Gorakhpur, 2001.

199. **V.N.Pandey(**2002) National symposium on frontiers of fungal diversity and disease management in Indian subcontinent. Gorakhpur, 2002.

200. **V.N.Pandey** and R.K.Pandey(2003), National seminar on physiological invention for improved crop productivity and quality. Opportunity and constraints. Tirupati, 12-14 Dec., 2003.

201. **V.N.Pandey** (2005) Second Science Awareness Convention. Gorakhpur, India, Gorakhpur, 5-7 Dec. 2005.

202. **V.N.Pandey (**2006), Regional Seminar on Sustainable Management of Medicinal Plants, from July 29-30, 2006 held at Department of Biotechnology, DDU Gorakhpur University,Gorakhpur(U.P.)-273009.

203. **V.N.Pandey**, R.K.Pandey, A.K.Dwivedi, Nidhi Gupta and A.K.Srivastava, (2006) Nutraceutical plants, public health and Environment in North Eastern Terai region of Uttar Pradesh.National Conference on Innovations in India Science, Engineering & Technology New Delhi, India New Delhi, 22-25 Nov. 2006.

204. **V.N.Pandey** (2006) Annual meeting of Indian Phytopathological Society (MEZ) &National symposium on microbial diversity and plant health problems. India.Gorakhpur, 27-30 Nov.2006.

205. **V.N.Pandey** (2007) Fomeage Cafeteria, World Biodiversity Day Conference organized by UP Biodiversity Board, Lucknow. 22 May, 2007.

206. Abhai K Srivastava and **V.N.Pandey (**2008). Ethnobotanically used leafyvegetables of North Eastern Terai region of U.P. All India Botanical Conference on Plant Biology andEnvironment:Changing Senario.Dec.17-19, Allahabad.

207. Abhai K Srivastava,Sudha Pandey and **V.N.Pandey** (2009), Traditionally used protein food folate leafy vegetables in North eastern Terai region of U.P. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan 30-31,Department of Botany, DDU Gotakhpur University,Gorakhpur.

208. R.K.Pandey and**V.N.Pandey** (2009) Mucuna pruriens(L.)DC: Potential Ethnobotanically used nutraceutical plant. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan.30-31, Department of Botany, DDU Gorakhpur University, Gorakhpur.

209. Nidhi Gupta and **V.N.Pandey** (2009) Pseudocereal based fuctional food and nutraceuticals. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan.30-31, Department of Botany, DDU Gorakhpur University, Gorakhpur.

210. Sudha Pandey, Abhai K Srivastava and **V.N.Pandey** (2009) Yield and Nutraceutical Potential of Some Leafy Vegetables in North Eastern Terai Region of Uttar Pradesh. National Conference on Biofuctions, Biodiversity and Plant Resource Utilization, Jan. 30-31, Department of Botany, DDU Gorakhpur University, Gorakhpur.

211. **V.N.Pandey** (2009) Fomeage Cafeteria: Conservation of Biodiversity and Biodiversity-Climatic link. National Conference on Environmental Pollution and Climate Change.Deg.18-19, 2009. Varanasi

212. **V.N.Pandey** (2010) Interface of Biology and Chemistry: Phytochemistry, antioxidant and nutraceuticals. National Conference on Frontier areas of Chemical Sciences. 20-21 March. St. Andrews College, Gorakhpur.

213. A.K.Dwivedi and **V.N.Pandey** (2010) Radical scavenging activity leaf protein extract Ipomoea aquatic by using DPPH assay. National Conference on Frontier areas of Chemical Sciences. 20-21 March, St. Andrews College, Gorakhpur.

214. **V.N.Pandey**, Abhai K Srivastava, Nidhi Gupta and R.K.Pandey (2010) Biochemical Composition and Antioxidant Activity of Some Nutraceutical Plants of North Eastern Terai Region of U.P., India. National Conference of Plant Physiology.25-27 Nov.2010, BHU, Varanasi.

215. **V.N.Pandey**(2011)Biodiversity, sustainable utilization and conservation of medicinal and nutraceutical plants of North Eastern Terai Region of U.P.,India. National Conference on Climate Change and Biodiversity,21-22 Jan. Department of Botany, SVMMPG College Gorakhpur.

216. **V.N.Pandey**, Abhai K Srivastavaand Nidhi Gupta(2011)Nutritional evaluation and amino acid Composition if leaf meal from *Talinum triangular*. National Conference on Climate Change and Biodiversity,21-22 Jan. Department of Botany, SVMMPG College Gorakhpur.

217. **V.N.Pandey**(2011)National conference on "Climate Change Biodiversity and conservation" held at St. Andrew,s College Gorakhpur, 16&17 Feb,2011.

218. **V.N.Pandey** (2011) VI International Nutra India Summit, Feb.15-18, 2011, Mumbai.

219. **V.N.Pandey** (2011) Plant Biodiversity, Utilization, Conservation of Biodiversity-Climate link North Eastern Terai Region of U.P. National Conference on Biodiversity: Challenges and Opportunities .Department of Botany, M D University,Rohtak.February 18-19, 2011.

220. **V.N.Pandey** (2011) National Seminar on Status of Biodiversity-Matter of Global Concern, Department of Botany, SPPG College, siddharthnagar, 21,22 Feb.

221. **V.N.Pandey** (2011) Biodiversity of Biofunctional plants, utilization and **Conservation**. National Advances in the Development of Geographical knowledge and its Interdisciplinaryassociation with Sciences,BHU,Varanasi .Nov.3-4,2011.

222. **V.N.Pandey** (2011) Biodiversity of Nutraceutical Plants, Utilization and **Conservation**. National Conference on Envionmental degradation vis-à-vis Biodiversity Conservation. M.LK PG College, Balrampur, Nov.5-6, 2011.

223. **V.N.Pandey** (2011)National Conference on "Biotechnology for sustainable development" held at DDU Gorakhpur University, Gorakhpur, 15-16 Nov. 2011.

224. **V.N.Pandey** (2011)National Conference on "Biodiversity: Changing Patterns and Conservation Strategies" held at DDU Gorakhpur University, Gorakhpur, 15-16 Nov. 2011.

225. **V.N.Pandey** (2012)National conference on "Climate change, biodiversity and Conservation" held at Department of Chemistry, St. Andrew's College, Gorakhpur, 15&16 Feb 2012.

226. **V.N.Pandey** (2012)National conference on vulnerabilities and adaptation of Fauna and Flora to rapidly changing Environment, 21 & 22 Nov, 2012 at Department of Zoology, St. Andrew's college, Gorakhpur, Uttar Pradesh, India.

227. **V.N.Pandey** (2012) **Bioprospection of Ethnobotanical Plant Biodiversity of North Eastern Terai Region of U.P.**XXXV All India Botanical Conference and National Symposium on Role of Plants and Microbes for the betterment of Mankind in the changing climate,organized by Deptt. Of Botany, Faculty of science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (India), 8-10 Dec, 2012.

228. **V.N.Pandey** (2013) Fomeage Cafeteria: A new hope for Biotechnology, Biodiversity and Biodiversity Climate-Link.100th Indian Science Congress, Kolkatta.Jan.01-07.

229. **V.N.Pandey** (2013) Biodiversity of Biofunctional plants, utilization and Conservation. National Conference on Biodiversity Conservation and Sustainable development. St. Andrews College, Gorakhpur. Feb, 06-07.

230. **V.N.Pandey** (2013) Medicinal Plants and Phytomedicines: Linking Plant Biofunctions to Human Health (An Invited article submitted to 1st U.P. Science Congress). DDU Gorakhpur University, Gorakhpur. March, 02-04.

231. **V.N.Pandey** (2013) Biodiversity: Live Telecast of Biofunctional plants, utilization and Conservation. National Conference on Biodiversity and Conservation.BBC College, Jhansi. March, 08-10.

232. **V.N.Pandey** (2013) Jaivprodyogiki, Jaivvividhita auvam Jaivvividhita Jalvayu-Kari: Ek nai Aasha.IInd National Symposium on BARC Technology for Development of Rural India, Organized by BARCOA, Mumbai and DDU Gorakhpur University, Gorakhpur. March, 12-13.

233. **V.N.Pandey** (2013) All India Vice Chancellors Meet DDU Gorakhpur University, Gorakhpur.May, 04- 06, 2013.

234. **V.N.Pandey** (2013) National conference on " Biodiversity, conservation strategies and sustainability of medicinal plants for their pharmaceutical use in human health and prosperity" Organized by Dept. of Botany, M.G. P.G. College Gorakhpur and society for conservation and resource development of medicinal plants, New Delhi. 24-25 Aug, 2013.

235. **V.N.Pandey** (2013) Asia pacific workshop on forest Hydrology "Water and forest-beyond Traditional forest hydrology, Dehradun, India". 23-25 Sep, 2013. Forest Research Institute, Dehradun, Uttarakhand, India.

236. **V.N.Pandey** (2013) Drug discovery, threatened medicinal plants and strategies for sustainable use. 25-26 Sep, 2013, organized by Department of Botany, St. Andrew's College Gorakhpur.

237. **V.N.Pandey** (2013) XXXVI All India conference of the Indian Botanical Society.Theme: Plant wealth and Human welfare, 18-20 Oct, 2013. Organized by Dept. Of Botany, DDU Gorakhpur University Gorakhpur.

238. **V.N.Pandey** (2014) National Seminar on Science and Innovation, Focal Theme: Science for Rural India. On 14th Feb, 2014 in BRDPG College Deoria U.P. Organized by Swadeshi Vigyan Sansthanam U.P. Chapter of & Vigyan Bharati.

239. **V.N.Pandey** (2014) National Conference on Recent Trends in Chemical Sciences, March 11, 2014 at Department Of Chemistry, Marwar Business School, Gorakhpur, India.

240. **V.N.Pandey** (2014) National Seminar on Recent trend in Microbiology, Held at DDU Gorakhpur University, Gorakhpur, U.P., India, 15 March, 2014.

241. **V.N.Pandey** (2014) National conference on Environmental constraints, conservation and resource development of medicinal plant for health and societal benefits. Held at Doon University, Dehradun. 21st-23rd March 2014.

242. **V.N.Pandey** (2014) National Conference on CURRENT ISSUE IN ZOOLOGY AND ENVIRONMENTAL SCIENCES" March 24, 2014 at Zoology Department, Marwar Business School, Gorakhpur, India.

243. **V.N.Pandey** (2014) National conference on Advances in Biological Sciences Held atDepartment of Botany, Marwar Business School, Gorakhpur, India, 29 March, 2014.

244. **202.V.N.Pandey** (2014)XXXVII All India conference of the Indian BotanicalSociety.Organized by Dept. Of Botany, **Vaze College** Mulund(E), Mumbai.Nov. 07-09.

245. **V.N.Pandey** (2014) Plants Biodiversity, Health, Medicine and Conservation of Biodiversity and Biodiversity Climate-Links through FOMEAG Cafeteria.Biodiversity and Climate Change-Adaptation-Current Status Trends and Policy Responses. St. Andrews College, Gorakhpur. Feb, 06-07.

246. **V.N.Pandey** (2015) National conference on Health and Biodiversity held atDepartment of Botany, Marwar Business School, Gorakhpur, India,March 2-3.

247. **V.N.Pandey** (2016) National conference Medicinal Plants, Biodiversity-Climate-link held at Department of Botany, Marwar Business School, Gorakhpur, India, Feb. 2

248. **V.N.Pandey**(2016) Medicinal Plants and FOMEAG CAFETERIA. National Conference on **"Agrotechnology, Commerce and Sustainable Use of Medicinal and Aromatic Plants"** National Agricultural Science Centre (NASC) PUSA Campus, New Delhi, Feb. 6-7, 2016.

249. Sarvesh Patel and **V.N.Pandey** (2016) Coloured fruits and vegetables ; A potential source of antioxidant. National conference on **"Agrotechnology, Commerce and**

Sustainable Use of Medicinal and Aromatic Plants" National Agricultural Science Centre (NASC) PUSA Campus, New Delhi, Feb. 6-7, 2016.

250. Neha Tiwariand **V.N.Pandey** (2016) National conference on **"Agrotechnology, Commerce and Sustainable Use of Medicinal and Aromatic Plants"** National Agricultural Science Centre (NASC) PUSA Campus, NewDelhi,Feb.6-7,2016.

251. Anita Raoand **V.N.Pandey**(2016) National conference on **"Agrotechnology, Commerce and Sustainable Use of Medicinal and Aromatic Plants"** National Agricultural Science Centre (NASC) PUSA Campus, New Delhi**.** Feb. 6-7, 2016

252. Vageshwariand **V.N.Pandey** (2016) National conference on **"Agrotechnology, Commerce and Sustainable Use of Medicinal and Aromatic Plants"** National Agricultural Science Centre (NASC) PUSA Campus, New Delhi.Feb. 6-7, 2016.

253. **V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

254. Sarvesh Patel and**V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

255. Shipra Pandey and**V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

256. Anita Rao and**V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

257. Neha Tiwari and**V.N.Pandey** (2016). Determination of total phenolic and flavonoid content in various extracts of Schleichera oleosa (Lour.) Oken, XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016, 312.

258. Vageshwari and**V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

259. Vineeta Singh and**V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

260. Manoj Kumar Chaubey and**V.N.Pandey** (2016). XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

261. Neeharika Dubey and**V.N.Pandey** (2016). Effects of pre-sowing treatments on germination period of Flacourtia jangomas seeds. XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016, 311.

262. Vandana Chauhan and**V.N.Pandey** (2016).Evaluation of DPPH radical scavenging activity and preliminary phytochemical ana XXXIX All India Conference of The Indian Botanical Society and National Symposium on "New Approaches and Recent Challenges in Botany", Ranchi University, Ranchi, Oct 21-23, 2016.

263. **V.N. Pandey (2017). Plant Wealth: Biofunctional power of planet.** 104th Indian Science Congress, Tirupati, 3-7 January, 2017, 79-80.

264. Anita Rao and **V.N. Pandey (2017).**Ethnonutraceutical and Therapeutic uses of Underutilized Aquatic herb: *Sagittaria sagittifolia* L. (Arrowhead).

265. Neha Tiwari and **V.N. Pandey (2017).** Biofunctional Potential of *Schleichera oleosa* (Lour.) Oken

266. Shipra Pandey and **V.N. Pandey (2017).** Ethnobotany and Nutraceutical Potential of *Dilleniaindica* (L.)

267. Vageshwari and **V.N. Pandey (2017).** Ethno-Medicinal and Pharmaceutical uses of *Trapa bispinosa* Roxb.

268. SarveshPatel and **V. N. Pandey (2017**). Bioactive and Antioxidants Potential of coloured Fruits and Vegetables.

269. Vineeta Singh and **V. N. Pandey (2017).**Nutritional Quality of Fruit of Underutilized Spanish Cherry Tree.

270. Manoj Kumar Chaubey **and V.N. Pandey (2017).**

271. Nidhi Gupta and **V.N. Pandey (2017).**Quantitative Estimation of Total Polyphenol and Flavonoid contents in Sun Dried Seed, Seed Coat and Popped Seed of *Euryale ferox*Salisb.

272. Vandana Chauhan and **V.N. Pandey (2017).**

273. Anil Kumar Dwivedi and **V.N. Pandey (2017).**

Workshops Attended-

274. **Effect of industrial pollution and workshop on industrial pollution on EasternUttarPradesh, Gorakhpur**, 27-29 April, 1991.

275. **Workshop on Intellectual Property Rights (IPR) and patenting laws, organized by technology Information forecasting and assessment council, Department of Science and Technology New Delhi and Lucknow University, Lucknow**, 20Dec. 1995.

276. **Workshop on Protein Nutritional Diet in South East Asian countriesOrganized by Institute of Food Research, Norwich England** 25-28 June, 1995.

277. **Workshop on watershed management and identification of algae, sponsored by UNEP,Toronto Canada, Toronto, Canada,** 6-11 Nov.,1995.

278. **National Workshop on IPR**,**DDU Gorakhpur University,Gorakhpur**. 22 July 2002.

279. **National Workshop on Quality Control and Assurance; RRL Jammu.** 20-21 March, 2003.

280. **Workshop on Intellectual Property Right sponsored by Department of Science and Technology, New Delhi; CST, UP, Lucknow in DDU Gorakhpur University,** Gorakhpur, 19 July, 2003.

281. **Workshop on Research proposal and resources, UGC Academic staff college, DDU Gorakhpur University, Gorakhpur,** 24-25, Oct.2005.

282. **Sensitization Workshop on DSTs Women Scientist Scheme (WOS-A) sponsored by Department of Science and Technology, New Delhi,** 20-21 June, 2007, Gorakhpur.

283. **Workshop on Faculty Development Programme in Entrepreneurshipsponsored by National Science and Technology Entrepreneurship Development Board and Department of Science and Technology, Government of India** and DDU Gorakhpur University,Gorakhpur.Feb.9-20,2010.

284. **Workshop on Land to Lab Exploring Farmers Priorities of Research to adapt to Climate Change, organized by GEAG and Department of Botany,** DDU Gorakhpur University, Gorakhpur.27th Feb.2010.

285. **Workshop on Information and Security Sponsored by , UGC Academic Staff College,** DDU Gorakhpur University, Gorakhpur, March 20,2010.

286. **Workshop on Environment and Biodiversityand Department of Botany,** DDU Gorakhpur University, Gorakhpur.14 March. 2011.

287. **Workshop on Enhancing Quality in Higher Education Institution an IQAC**Approach,organized by IQAC-DDU Gorakhpur University and UP Higher Education Council.Sept.7, 2011.

288. **Training Workshop on Green Chemistry, Chemistry for Tomorrow's WorldDec.26, 2011, Sponsored by Royal Society of Chemistry London, Department of Chemistry, Delhi University, Delhi.**

289. **Workshop on "Sensitization of women scientists" held at Department of Botany,DDU Gorakhpur University,Gorakhpur. 13 Aug 2012.**

290. **National Workshop on "Biodiversity Conservation: A Demand of Time" (2013) Sponsored by Ministry of Environment, Govt. of India New Delhi and SES, Shohratgarh, MBA Building DDU Gorakhpur University Gorakhpur. Nov. 18, 2013.**

291. **National Workshop on "Forest- Sustainable means of Livelihood ", (2014) Sponsored by Ministry of Environment, Govt. of India New Delhi and SES, Shohratgarh, MBA Building DDU Gorakhpur University Gorakhpur.**

292. **Workshop on Enhancing Quality in Higher Education Institution an IQAC**Approach,organized by IQAC-DDU Gorakhpur University and UP Higher Education Council.Sept.7, 2014.

293. **Short Term Training Programme lecture on Cytogenetics, Biodiversity,Plant Resource Utilization and Conservation on " Plant Molecular Cytogenetics "**St. Andrews College, Gorakhpur, **Nov.13, 2014**

294. **Workshop on Credit Based Course System (CBCS)** Organized by IQAC-DDU Gorakhpur University and UP Higher Education Council.Sept.7, 2015.

295. Field Visit: **Savannah Tree Foundation**, Savannah USA July 2017

UTAH VALLEY UNIVERSITY
DEPARTMENT of BIOLOGY

June 25, 2017

Dr. Rachel Meyer
Executive Director
University of California Conservation Genomics Consortion
Botanical Society of America

Letter of support on behalf of Dr. Vashistnarayan Pandey to become a corresponding member of the BSA.

Dear Dr. Meyer and members of the committee:

This is a letter of support on behalf of Dr. Vashistnarayan Pandey who is applying to become a corresponding member of the Botanical Society of America. Dr. Pandey is a Professor at the Department of Botany in DDU Gorakhpur University, working on plant resource utilization, biodiversity, ethnobotany, nutraceuticals, medicinal plants, physiology and biochemistry. As you will see on his CV, he is a distinguished senior scientist that has made outstanding contributions to plant sciences and has all the attributes required to become a corresponding member. He has an impressive CV including many publications, he has published 106 scientific research papers and several books, he has 30 years of teaching experience and 34 years of research experience.

Dr. Pandey has involved students in his country in research involving plants and other types of research, demonstrating that he will be an outstanding corresponding member of BSA by helping disseminate knowledge and enthusiasm for plant sciences in India, Dr. Pandey's country of origin, and where he currently works.

Dr. Pandey has been invited and participated in many conferences, giving lectures about plant-related research and biodiversity. He has great teaching experience, advising several Ph.D. students in their research, demonstrating his love for guiding and advising the future plant scientists. He is a member of several organizations including among others the Association of Food Science and Technology, the Society for Green Vegetation Research, the Indian Phytopathological Society and others. He is an honorary member of the New York Academy of Science, the North American Lake Management Society, the European Weed Research Society and the Institute of Food Research. This demonstrates his great desire to serve the plant and research community in general.

800 West University Parkway Orem, Utah 84058-5999 MS 179 *phn* 801 863 8511 *fax* 801 863 8064

Dr. Pandey's enthusiasm for learning and applying this knowledge to his research and professional life is demonstrated by his participation in a great variety of workshops in a wide variety of topics. He uses the knowledge gained to help his students to widen his research areas.

Dr. Pandey is very involved in research and I admired his strong work ethics and passion for his work. I strongly support Dr. Pandey in his application to become a corresponding member of the BSA, I think he will do a great job because of his dedication and passion for plant sciences. He has an extensive amount of service experience in different types of activities, experience that he will apply in his job as a corresponding member of the society. Please contact me if you have additional questions about Dr. Pandey.

Sincerely,

Olga R. Kopp, Ph.D.
Associate Professor
Chair of the search Committee Mycologist position.
Utah Valley University
800 West University Parkway
Orem, UT 84058-5999
Telephone: 801-863-6259 Fax: 801-863-8064

WM Dahl
1130 Cambrook Court
Monument, CO 80132

Dr. Gordon Uno
Chair, BSA Corresponding Member Committee
Botanical Society of America
PO Box 299
St. Louis, MO 63166

Re: Dr. Vashist N Pandey, Professor of Botany, DDU Gorakhpur University, Gorakhpur, Uttar Pradesh, India and Corresponding Membership in the Botanical Society of America.

Dear Dr. Uno and Corresponding Members Committee Members,

I met Dr. Pandey at Botany 2016 in Savanah, Georgia. He was an enthusiastic participant and expressed an interest if becoming more involved with the BSA. In particular, forming a link between botany in India and the USA.

As a non-botanist, I am unable to comment on the nature of the science conducted by Dr. Pandey. I do however see an opportunity for the BSA in building links with Indian botanists. As he is being nominated by the Economic Botany section, I take their guidance in endorsing the application. Establishing an active and meaningful relationship through the Corresponding Membership makes good sense.

All the very best in making your decision.

Sincerely,

William M Dahl