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Curriculum Vitae

Name: A. K. S. K. Prasad (Akshinthala K. Prasad)

Present Position: (Courtesy) Scientist, Department of Biological Science, B-142
Florida State University, Tallahassee, Florida 32306-1100 U.S.A.
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Senior Research Scientist, Environmental Planning & Analysis, Inc.,
West Tharpe Street, Tallahassee, Florida, 32303 U.S.A.

Education:	Ph. D. (Botany)	University of Madras	1976
	M.Sc.(Botany)	University of Madras	1971
	B.Sc. (Botany)	University of Madras	1969

Professional Experience/Research/Training:

Research experience: 29 years of Research experience in the Systematics of micro algae (Botany).
Diatom systematics, phytoplankton systematics, Algae Blooms in freshwater and coastal waters

1989-to date. Senior Research Scientist, Environmental Planning & Analysis, Inc., Tallahassee, FL.
U.S.A. Duties: Identification and enumeration of micro algae (phytoplankton and benthos) from
freshwater, estuarine and marine environments in north Florida; Systematics of micro algae.
Diatom systematics, Phytoplankton systematics.

1984- 1988 May; 1989 May-Dec. 1990. Research Associate, Department of Biological Science,
Florida State University, Tallahassee, FL. 32306 U.S.A. Phytoplankton systematics, Identification
and enumeration of micro algae in freshwater, estuarine and marine environments in
southeastern United States, Caribbean waters and northeast Gulf of Mexico)(Choctawhatchee
bay, Perdido Bay, Apalachicola Bay. Effect of microalgae to toxic wastes in several freshwater
streams in southeastern United States. Supervisor: Professor R.J. Livingston.

1988 May-May 1989. Reader in Botany (Associate Professor), Center for Advanced Study in
Botany, University of Madras, Madras, India. Taught advanced courses in Phycology and
International Code of Botanical Nomenclature for graduate programs

July- November 1988. Research Associate, Department of Oceanography, Texas A & M
University, College Station, TX 77843 U.S.A. Identification and enumeration of microalgae, Life
History Stages in winter phytoplankton of Antarctic waters as part of Antarctic Marine ecosystem
Research at the Ice-Edge Zone (AMERIEZ) program funded by US National Science Foundation
to Dr. Greta Fryxell. Invited to participate in the AMERIEZ -88 winter cruise to Weddell Sea,
Antarctica.

.Jan.-Feb. 1988. McHenry Research Fellow, Academy of Natural Sciences of Philadelphia.
Study of diatom type materials. Supervisor: Dr. Charles W. Reimer

1987. Associate Investigator, for the preparation of an atlas of microalgae of various groups from
the selected drainage areas from central and north Florida. Funded by Florida Department of
Environmental Regulation, to Professor R.J. Livingston.

1983-1984. Research Associate, Department of Biological science, Florida State University. Worked on Experimental taxonomy of endolithic cyanophytes (blue-green algae) from hot and cold deserts. Funded, by US National Science Foundation, to Professor Imre E. Friedmann.

1981-1983. Research Associate & Post-doctoral Research Fellow, Center for Advanced Study in Botany, University of Madras, India Systematics of micro algae in freshwater and marine environments. Taxonomy of Blue-green algae; Littoral marine diatoms of Indian seas. Supervisor: Professor T V Desikachary.

1978-1980. Scientific Pool officer (Council of scientific and Industrial Research). Worked on freshwater algae of Southern India. University of Madras-Center for Advanced Study in Botany, Madras, India

1976-1978 May. Lecturer, Center for Advanced Study in Botany, University of Madras. Taught Phycology courses for M.Sc., and M. Phil. Programs.

1972-1976. Graduate Research Fellow, Center for Advanced Study in Botany, University of Madras, India. Doctoral research on Taxonomy of Blue-green algae. Major Professor : Dr. T. V. Desikachary.

1973 January-April. Research Fellow, School of Plant Biology, University college of North Wales, Bangor, Wales, U. K. Worked on ultra structural studies on blue-green algae associated with bryophytes. Supervisor: Professor J. G. Duckett. .

Research Training:

1990 July-August. Participated in the International Advanced Training for Experienced Scientists in marine Phytoplankton Systematics at Naples, Italy. Funded by UNESCO

May 1984. Attended the workshop on "Recombinant DNA" at Department of Microbiology, Rutgers University.

1973. Underwent training in Ultrastructure studies in micro algae (Blue-green Algae) at School of Plant Biology, University College of North Wales, U.K. Sponsored by Inernational Association for the Exchange of Students for Technical Experience (IAESTE), U.K. 1973

Teaching Experience:

Taught courses for MS and M. Phil.* programs in Phycology; Systematics of micro algae of various groups including Cyanophytes, chromophytes, diatoms, dinoflagellates, euglenophytes. March 1988- May 1989 as a Reader (Associate Professor level) in Botany, University of Madras and as an Assistant Professor of Botany, University of Madras from 1976 & 1977, and as a post doctoral research fellow in Phycology from 1978-1980. at University of Madras. (* Master of Philosophy, an intermediate program between Masters and Doctoral programs).

Honors & Membership in Scientific societies/ committees:

1993- to date. Member, International Committee of Nomenclature for Algae.

2005. Secretary, International Phycological society

2005 July 18-23. Convener, 17th International Botanical Congress Invited Symposium on Algal Blooms and their effects on community structure. Vienna, Austria.

2002-2000 Member, International Phycological Society's Nominating Committee..

1994. Convener, Symposium on "Systematics of Freshwater Algae" at the 5th International Phycological Congress in Qingdao, People's Republic of China, 1994.
1994. Member, International Organizing Committee for 5th International Phycological Congress in Qingdao, P. R. China.

Member, International Phycological Society
Member, International Society for Diatom Research

List of publications on microalgal systematics:

- Desikachary, T. V. , Sankaran, V. & Prasad, A. K. S. K. (1974).
Preliminary conclusions on a revision of the genus *Nostoc* Vauch. International Symposium on Taxonomy of Algae, University of Madras, India. p. 13.
- Duckett, J. G. & Prasad, A. K. S.K. (1974).
Ultrastructural studies on the *Nostoc* colonies associated with *Blasia pusilla* and *Anthoceros* spp.
Journal of Bryology 8: 181-182,
- Duckett, J. G., Prasad, A. K. S. K. (1975).
Ultrastructural studies on the blue-green algae associated with Bryophytes *Anthoceros* and *Blasia*, and the heterosporous fern *Azolla*.
British Phycological Journal 10: 311.
- Duckett, J. G., Prasad, A. K. S. K., Davies, D. A. & Walker, S. (1977).
A cytological Analysis of *Nostoc*-Bryophyte relationship.
The New Phytologist 79: 349-362.
- Prasad, A. K. S. K. & Vidya Kumari, A. (1978).
Bumilleria Borzi (*Xanthophyceae*) from South India.
Revue Algologique 12: 317-321.
- Prasad, A. K. S. K. , Sundaralingham, V. S. & Subbulakshmi, G. (1979).
Studies on South Indian Soil Algae: *Gloeocystis gigas* Collins
Revue Algologique 14: 239-245.
- Prasad, A. K. S. K. (1979).
Ellipsoidion regulare Pascher from South India.
Archives of Protistenkunde 122: 353-359.
- Prasad, A. K. S. K. (1980).
Observations on the cell wall structure of *Scotielloccystis oocystiformis* (Lund) Fott using scanning Electron Microscope.
Symposium on Electron Microscopy, Sardar Patel University, India. p.28.
- Sankaran, V. & Prasad, A. K. S. K. (1980).
Preliminary conclusions on a revision of the genus *Nostoc* Vaucher.
In: Taxonomy of Algae, (ed.) by T. V. Desikachary, University of Madras. p.97-108.

Prasad, A. K. S. K. (1981)
A numerical Analysis of Blue-green algae.
In: Algae and their Utilization, University of Madras. p. 23.

Prasad, A. K. S. K. & Janaki, V. C. (1981).
Scoteillocystis Fott from South India and comments on the taxonomy of certain species of
Scoteilla Fritsch.
Archives of Protistenkunde 124: 409-422.

Balusamy, M., Krishnamurthy, V., Desikachary, T. V. & Prasad A. K. S. K. (1982).
New records of Indian siphonous algae.
First International Phycological Congress, New Foundland. p. 27.

Prasad, A. K. S. K. (1982).
Notes on South Indian Soil Algae: *Chlorosarcinopsis* Herndon (*Chlorosarcinales, Chlorophyceae*) in
India.
Archives of Protistenkunde 126: 273-282.

Balusamy, M., Krishnamurthy, V., Desikachary, T. V. & Prasad, A. K. S. K. (1982).
On *Bornetella nitida* (Harv.) Munier-Chelmas from the Andaman Islands.
Seaweed Research & Utilization 5: 99-101.

Prasad, A. K. S. K. (1983).
Notes on Phytoflagellates: *Chroomonas* Hansg. from Madras, India.
Phykos 22: 57-60.

Prasad, A. K. S. K. (1985)
Ecballocystopsis desikacharyi sp. nov. (*Chlorodendrales, Chlorophyceae*) from South India: structure
and reproduction.
Phycologia 24: 241-243.

List of publications in Diatom Systematics.

Prasad, A. K. S. K. (1986).
Delphineis livingstonii n. sp. (*Diatomaceae, Bacillariophyceae*) from St. George Sound, northeastern
Gulf of Mexico.
Botanica Marina 29:517-522.

Prasad, A. K. S. K. (1987).
Marine Diatoms of St. George Sound, northeastern Gulf of Mexico: II. *Neodelphineis pelagica*
Takano (*Diatomaceae, Bacillariophyceae*).
Northeast Gulf science 9:125-129.

Prasad, A. K. S. K. & Nienow, J. A. (1986).
Marine diatoms of sediments from Croft Bay, Antarctica.
Antarctic Journal of the United States 21(5): 181-183.

Desikachary, T. V., Gauthaman, S., Hema, S., Prasad, A. K. S. K. & Prema, P. (1987).
The genus *Perisonoe* (*Fragilariaceae, Bacillariophyceae*) from the Indian Ocean.
Current Science 56: 879-882.

- Prasad, A. K. S. K. & Livingston, R. J. (1987).
An Atlas of diatoms and other algal forms from selected drainage areas in central and north Florida. Florida Department of Environmental Regulations.
- Prasad, A. K. S. K. & Nienow, J. A. (1987),
Rimoportulae in *Eupodiscus radiatus* (*Bacillariophyceae*) from the northeastern gulf of Mexico. *Journal of Phycology* 24: 120-123.
- Livingston, R. J. & Prasad, A. K. S. K. (1987).
Use of micro algae as indicators of toxic waste impact in stream systems of southeastern United States. International Symposium on Phycology, University of Madras,
- Prasad, A. K. S. K. & Felgenhauer, B. E. (1988).
Cingulum morphology in the marine benthic diatom *Dimeregramma fulvum* (*Diatomaceae*, *Bacillariophyceae*). *Transactions of the American Microscopical Society* 107: 277-285.
- Prasad, A. K. S. K. & Felgenhauer, B. E. (1988).
Colony formation and valve morphology in the marine benthic diatom *Dimeregramma fulvum* (*Diatomaceae*, *Bacillariophyceae*). *British Phycological Journal* 23: 365-378.
- Fryxell, G. A. & Prasad, A. K. S. K. (1989).
The diatom *Eucampia antarctica* (Castracane) Mangin at the Antarctic ice edge: varieties and life stages. *EOS* 70(15): 376.
- Prasad, A. K. S. K., Livingston, R. J. & Ray, G. L. (1989).
The marine epizoic diatom *Falcula hyalina* from Choctawhatchee bay, the northeastern Gulf of Mexico: frustule morphology and ecology. *Diatom Research* 4:119-129.
- Desikachary, T. V., Prasad, A. K. S. K. & Prema, P. (1989).
Valve morphology of marine benthic diatom *Neofragilaria nicobarica*. *Cryptogamie Algologique* 24; 97-104.
- Fryxell, G. A., Prasad, A. K. S. K. & Fryxell, P. (1989)
Eucampia antarctica (Castracane) Mangin: complex nomenclatural and taxonomic history. *Taxon* 38: 638-640.
- Livingston, R. J. & Prasad, A. K. S. K. (1989).
A photographic atlas of north Florida estuarine phytoplankton and a summarization of life history relationships and associations with various environmental conditions. Report for the Florida Department of Environmental Regulations.
- Fryxell, G. A. & Prasad, A. K. S. K. (1990).
Eucampia antarctica (Castracane) Mangin (*Biddulphiaceae*, *Bacillariophyceae*): Life stages at the Weddell Sea ice edge. *Phycologia* 29:27-38.
- Prasad, A. K. S. K., Nienow, J. A. & Livingston, R. J. (1990).
The genus *Cyclotella* (*Bacillariophyta*) in Choctawhatchee Bay, Florida with special reference to *C. striata* and *C. choctawhatcheana*. *Phycologia* 29: 418-436.
- Ashworth, T.K., Prasad, A. K. S. K. & Fryxell, G. A. (1990).
Phytoplankton distributions across the Weddell Sea Ice Edge during Austral Winter. *EOS*.

Livingston, R. J., Jordon, F., Karstetter, W. R., Koenig, C. C., Prasad, A. K. S. K. & Ray, G. L. (1990). Ecology of Choctawhatchee River System. In: Rivers of Florida, (ed.) by R. J. Livingston. Ecological Studies, volume 83, Springer Verlag, New York. pp.418- 436.

Prasad, A. K. S.K. & Fryxell, G. A. (1991). Habit, frustule morphology and distribution of the antarctic marine benthic diatom *Entopyla australis* var. *gigantea* (Grev.) Fricke (*Entopylaceae*). British Phycological Journal 26: 101-122.

Prasad, A. K. S. K. (1992). Type material of the Micocene diatom *Dimeregramma brandywinensis* Patrick and its transfer to the genus *Delphineis* Andrews. Micropaleontology 38: 418-420.

Prasad, A. K. S. K. & Fryxell, G. A. (1993). The genus *Thalassiosira*: *T. cedarkeyensis*, a new marine benthic diatom from the Florida coast of the Gulf of Mexico with tangential undulated valves and occluded processes. Phycologia 32(3): 204-212.

Prasad, A. K. S. K. & Livingston, R. J. (1993). Frustule morphology of the planktonic pennate diatom *Fragilaria gessneri* Hustedt (*Bacillariophyceae*) from Florida coast of the Gulf of Mexico, with a description of *Desikaneis* gen. nov. Phycologia 32(6): 434-443.

Prasad, A. K. S. K. & Livingston, R. J. (1996) A micromorphological and systematic study of *Coscinodiscus jonesianus* (Bacillariophyta) from Florida coastal waters. Nova Hedwigia, Beihefte 112: 247-263

Prasad, A. K. S. K., J. A. Nienow & V. N. R. Rao 1996. (Editors), Contributions in Phycology, A Festschrift in Honour of Professor T. V. Desikachary on the occasion of his 75th Birthday. Nova Hedwigia, Beiheft volume 112, 553 pp. J. Cramer, Stuttgart.

Prasad, A.K.S.K., K. A. Riddle & R. J. Livingston 1997. Fine Structure, Taxonomy and Systematics of *Fryxelliella*, a new genus centric diatoms, having a new valve feature, circumferential marginal tube with descriptions of *F. floridana* sp. nov. and *F. inconspicua* (Grevill) comb. nov. Phycologia 36(4): 305-323.

Prasad, A.K.S.K., K. A. Riddle & J. A. Nienow 2000. The marine diatom genus *Climaconeis* (Berkeleyaceae, Bacillariophyta): two new species, *C. koenigii* and *C. colemaniae* from Florida Bay, USA. Phycologia 39: 199-211.

Prasad, A.K.S.K. & P. C. Silva 2000. Proposal to censure the name *Staurophora* Meresch. (Bacillariophyceae) against *Staurophora* Willd. (Hepaticae). Taxon 49: 283-284.

Prasad, A.K.S.K., J. A. Nienow & K. A. Riddle 2001. Fine structure, taxonomy and systematics of *Reimerothrix* (Fragilariaceae, Bacillariophyta), a new genus of synedroid diatoms from Florida Bay, USA. Phycologia 40 (1): 35-46.

Prasad, A.K.S.K. , J. A. Nienow & R. J. Livingston 2002. The diatom genus *Tryblioptychus* Hendey (Thalassiosiraceae, Coscinodiscophyceae): Fine structure, Taxonomy, systematics and distribution. Diatom Research 17 (2): 291-308.

Prasad, A.K. S. K. 2003. Fine structure and taxonomy of two species of the marine diatom genus *Climaconeis* (Berkeleyaceae: Bacillariophyta): *C. silvae* sp.nov. and *C. riddleae* sp. Nov. from the Caribbean Sea and Florida Bay, USA. *Hydrobiologica* 13(1): 9-22.

Prasad, A. K. S. K. and R. J. Livingston 2005. Fine structure and taxonomy of *Synedropsis karsteteri* sp. nov. (Fragilariaceae, Bacillariophyta), a bloom-forming, brackish-water, planktonic araphid diatom from Perdido bay, northeastern Gulf of Mexico. *Diatom Research* 20(1): 112-128.

Prasad, A.K.S.K., J.A. Nienow, K. A. Riddle. 2005. A light and scanning electron microscopical study of living marine diatom, *Pseudauliscus peruvianus* from Gulf coast of Florida and Alabama and comments on its lectotypification and systematics of the genus. *Nova Hedwigia* (Beiheft) (In press).

Prasad, A. K. S. K., & J. A. Nienow. (in review). The diatom genus *Cyclotella* (Bacillariophyta); *C. desikacharyi* sp. nov. and the bloom-forming *C. choctawhatcheeana* Prasad from Florida Bay, USA. *Phycologia* 45 (1): 69-82