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Present Position

Deputy Educational Adviser, Department of Higher Education, Ministry of Human Resource Development, Government of India.

Educational Qualifications

Ph.D. in Polymer & Fiber Technology, Indian Institute of Technology, Delhi (1995).

M.Sc. (Organic Chemistry) (1979)

Membership

Life Member of the Indian Society for Technical Education, Membership No. LM 11869.

Publications

Seventeen articles contributed to the reputed and International Journals, Proceedings of the Workshops and Books (List of Publications is attached). The Research Publications have been cited by the Researchers in the field. (A list of Citations is enclosed)

Professional Experience

a) Administrative

September 2006 – till now Deputy Educational Adviser in the Department of Higher Education, dealing with Distance Education

August 2004 – August 06 Deputy Educational Adviser in the Department of Secondary & Higher Education, dealing with Research Councils, Deemed Universities and Shastri Indo Canadian Institute.

(October 2002 – August 04) Deputy Educational Adviser in the Department of Elementary Education & Literacy, Ministry of Human Resource Development, dealing with Sarva Shiksha Abhiyan (Education for All) -National Project, Education Guarantee Scheme & Alternative and Innovative Education (EGS & AIE) (flexible strategies to bring children from hardest to reach groups in set up of elementary education) to achieve UEE for

Universalisation of Elementary Education (UEE), INDUS, joint project of Government of India and United States' Department of Labour for education component of elimination of child labour. Computer Aided Education at Elementary level, use of Information Communication Technology (ICT) Government to Citizen (G2C) and Government to Business (G2B) operations as well as in data management for SSA in particular & Elementary Education in general.

**Feb 2002-
September 2002**

Deputy Educational Adviser in the Department of Secondary & Higher Education, Ministry of Human Resource Development, dealing with Vocational Education and Integrated Education for Disabled Children.

(1997-2001)

Four years as a diplomat looking after the matters related to Education, Culture, Science & Technology and Tourism in Consulate General of India at New York and working for enhanced cooperation between India and United States in the field of Education and Internationalization of Education in India.

(1992-1997)

Department of Education, Government of India in the **University & Higher Education Bureau as Assistant Educational Adviser** dealing with Central Universities, policy matters, legislative matters (associated with the enactment and amendment of a number of legislations), and legal matters.

b) Research

(1988-1992)

Department of Textile Technology, Indian Institute of Technology, Delhi on a project to develop Precursors for Carbon Fibers on the fellowship awarded by University Grants Commission of India.

c) Teaching

(1981-1988)

Taught General and Organic Chemistry to under-graduate students, in a college affiliated to M. D. University, Rohtak, Haryana (India).

d) Industrial

(1979-1981)

18 months in industrial research and process development to manufacture dodecylbenzene- base material for the detergent.

PROFESSIONAL ACHIEVEMENTS

ACADEMIC

- Published seventeen articles (list of publications attached), in reputed and international Journals, in an emerging area of Technology i.e. Development of High Performance Carbon Fibres used as reinforcing material in light weight heat resistant composite for variety of applications including aerospace.
- **Chaired a session on Regional Cooperation at the Regional Seminar on Community Learning Centres organized by UNESCO at Chaingmai, Thailand from 23-27 March, 2004.**
- **Included in the 2001 Edition of prestigious Marquis Who's Who in America in recognition of the achievements and contributions to the contemporary society as Indian Diplomat.**
- Participated in Ambassadorial Round Table Session with Ambassador of Brazil and Mozambique to United Nation, in a Seminar on "Poverty and Globalisation" organised by St. John's University, New York. U.S.A. in 2001.
- 'Paper' Globalization of Indian Education appeared in university News appreciated by Director, NIEPA who was actively associated in formulation of Indian Policy for WTO-GATS.
- Written a comprehensive paper entitled **"Indian Education : Perspective for 21st Century"** suggesting the goals for Indian Education System at various levels and also the reforms to make it more compatible to global education. **Chairperson of the University Grants Commission and Secretary, Department of Culture, Government of India appreciated this paper.**
- Written five articles on the subjects concerning specially Higher Education, Community based Vocational Education and Internationalization of Education in India.
- Gave a Seminar on **"Development of Carbon Fibres from Acrylic Precursors"** in the **Stevens Institute of Technology**, Hoboken, New Jersey, U.S.A. on the invitation of its Department of Chemical Engineering on November 10, 1999.
- Supervised the dissertation entitled **"Insight into the History and Culture of India"** written by Ms. Geera Butala, a student of City University of New York, when she worked

as an intern at the Education Wing of the Consulate General of India, New York during June-August 1999.

- Participated as penalist in a discussion on a play written by Pradeep Dalvi “This is Nathuram Godse” organised by University of Dayton, Ohio, U.S.A. in February 1999.
- Gave a talk on ‘Trends in India Higher Education and Culture’ on February 2, 1998 at Worcester Polytechnic Institute Worcester. Massachusetts, USA.
- Awarded with the University Grants Commission’s Fellowship for doing research in the field of Polymers and Fibres.

ADMINISTRATIVE

- Contributed to the launch of pilot project ‘SAKSHAT’ - One Stop Education Portal aimed to address all kind of educational needs of Indian masses irrespective to their educational, social, economical and geographical conditions and that too without any financial burden on to them.
- Drafted Bill for establishment of Distance Education Council (for facilitation, prescribing and regulating the standards of education through all kinds of distance mode including using conventional and electronic / digital means) for consideration of Indian Government and subsequently Parliament.
- **Recognized by Union Minister of Social Welfare and Government of Haryana as an Educational Expert.**
- Drafted Report on Community Based Education on the pattern of Community Colleges in USA suiting to Indian needs for trained manpower for middle tier of jobs.
- Drafted outlines of a proposed Centrally Sponsored Scheme for extending financial assistance to States, use of Information Communication Technology (ICT) in Elementary Education (EE).
- Developed a concept and outlines for designing a web portal of Sarva Shiksha Abhiyan (SSA) to facilitate Government to Business (G2B), Government to Citizen (G2C) processes and data management.

- Selected as an evaluator of Research Papers by India Council of Social Science Research, an autonomous body of Ministry of Human Resource Development, Government of India in September 2003.
- Drafted a report on Computer Aided Education.
- Selected as an evaluator by NAAC in July 5 2003, to access the colleges of higher education for granting accreditation and grading.
- Chaired a session on 'Management and Ethics' in a National Workshop on Leadership Social Responsibilities and Human Values' organized by Institute of Management and Research, Ghaziabad in February 8-9 2003.
- **Retrieved one 8th Century and other 11th Century Stone sculpture of Buddha and Krishna Janma from Metropolitan Museum, and Asia Society, New York respectively in record time of eight months and without paying any cost for that.**
- **Added Chapter on Education to the Web-site of Consulate General of India in New York (URL-www.indiacgny.org) giving addresses, contact numbers and the name of the Vice Chancellors and Registrars of Indian Universities, Engineering, Medical, Dental Colleges and Management Education Institutes;**
- Assisted in the year 1999-2000, children's Book council INC. USA in developing Multilingual including Hindi Posters for children.
- Submitting Reports/papers to Government of India 'as Consul Education' on various policy matters related to Education such as Internationalization of Higher Education in India, Private Investment in Higher Education, Starting the Community Colleges in India, Student Exchange Programs, Study Abroad Programs etc.
- Preparing and notifying the **Scheme for regulating the fee structure and admissions in the private educational institutions imparting professional education on the direction of the Supreme Court of India in Unnikrishnan's Case** banning charging of the capitation fee by private technical and medical educational institutions.
- Drafting of an enabling legislation for the establishment of Private Universities in India;
- Enactment of legislation for the establishment of Central Universities and also the amendments in the existing Acts of the Universities;
- Making successful arrangements at the venue of the International Summit (EFA 9) of the Head of States/Governments of the nine most populous nations of the world at Vigyan Bhawan, New Delhi – December 1993.

LIST OF PUBLICATIONS

1. **Acrylic Precursors for Carbon Fibres**, J. Macromol. Sci., C31 (1), 1 (1991).
2. **Some Recent Advances in the Production of Acrylic Fibres for Specific End Uses**, Ind. J. of Fiber & Text. Res., 16(3), 89 (1991).
3. **Acrylonitrile – Acrylic Acids Copolymers I Synthesis and Characterization**, J. Appl. Polym. Sci., 49, 823 (1993).
4. **Effect of an Acidic Comonomer on Thermo-oxidative Stabilization of Polyacrylonitrile**, J. Appl. Polym. Sci. 58, 1161 (1995).
5. **Effect of Nature and Mole Fraction of Acidic Comonomers on the Stabilization of Polyacrylonitrile**, J. Appl. Polym. Sci. 59, 1819 (1996).
6. **Modification of Acrylic Fibres for Specific End Uses**, Ind. J. of Fibre & Text. Res. 21 (6), 143 (1996).
7. **Influence of Metal Ions in the Structure and Properties of Acrylic Fibres**, J. Appl. Polym. Sci. 67, 1647 (1998).
8. **Melting Behaviour of Acrylonitrile Polymers**, J. Appl. Polym. Sci. 70 (13), p 2703, 1998.
9. **Stabilization of PAN Precursors Under Oxidative and Inert Atmosphere**, Proceedings, International Symposium on Carbon, Tsukuba – Japan (Nov. 4-8, 1990) p.238.
10. **Studies on High Molecular Weight Fibre Forming Acrylonitrile Copolymers**, Proceedings, Annual Meeting of Polymer Processing Society, New Delhi, March 1992, p.364.
11. **Synthesis Characterization and Thermal Behaviour of Acrylonitrile Copolymers Suitable for Precursors for Carbon Fibres**, Proceedings, National Workshop on Newer Carbon Products and their Applications, Bangalore Oct. 1992, p.187.
12. **Carbon Fibres** in the Book for Summer School, edited by Prof. A. K. Gupta and S. N. Maiti, Centre for Material Science and Technology, Indian Institute of Technology, Delhi.
13. **Precursors for Carbon Fibres** in the Recent Developments in Polymers and Composites, edited by Prof. I. K. Varma and Veena Chaudhary, Centre for Material Science and Technology, Indian Institute of Technology, Delhi.
14. **Internalisation of Higher Education in India** in Proceeding of Round Table on Internationalization of Indian Education organized by AIU in February 2001, Mysore.

15. **Role of Community Colleges in Nation-Building**, New Frontiers in Education 32(2), 2002 p. 97-100.
16. **Globalization of Indian Education**, University News - 40(39), 2002 p. 9-15.
17. Association of Indian Universities included the article 'Globalization of Indian Education' in a special volume on "Globalization of Indian Higher Education" of a series 'Selections from University News'

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1. Acrylic Precursors for Carbon Fibres, *J. Macromol. Sci.*, C31(1), 1, (1991).

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- a) Lakeman C. D. E. in *Mater. Lett.*, 13, 330, (1992).
- b) Sen K. in *J. Macromol. Sci.*, C 36(1), 1996

2. Some Recent Advances in the Production of Acrylic Fibres for Specific End uses, *Ind. J. Fibre & Text. Res.*, 16(3), 89, (1991).

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- a) Tsai J.S. in *Mater. Sci. Lett.*, 14, 66, (1995).
- b) Sen K. in *J. Macromol. Sci.*, C36(1), (1996).
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3. Acrylonitrile – Acrylic Acids Copolymers I Synthesis and Characterization, *J. Appl. Polym. Sci.*, 49, 823, (1993).

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- a) Gupta AK, Paliwal DK, Bajaj P: *J. Appl. Polym.Sci*, 58 (7): 1161, (1995).
- b) Bajaj P, Sen K, Bahrami SH: *J. Appl. Polym.Sci*, 59 (10):1539-1550, (1996).
- c) Gupta AK, Paliwal DK, Bajaj P: *J. Appl. Polym.Sci J.*, (12): 1819-1826 (1996).
- d) Sen K, Bahrami SH, Bajaj P: *J. Macromol. Sci. – Rev. Macromol. Phy. Chem.* 1996.
- e) Sen K. in *J. Macromol. Sci.*, C36(1), (1996).
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- i) Gupta A.K. in *J. Appl. Polym.Sci*-70, 2703, (1998).
- j) Polic A. L. in *J. Polym. Sci. PC* 36, 813, (1998).
- k) Lee Y, Cho J, Park Y, et al.: *Polymer, Korea*, 22 (1): 167-173 (1998).
- l) Gupta AK, Paliwal DK, Bajaj P: 70 (13): 2703-2709 (1998).
- m) Sarac A. j. in *J. Polym. Sci. PC* 37, 2319, (1999).
- n) Erbil C. in *Macromolecular Chemistry and Physics*, 200, 2448, (1999).
- o) Ray SK, Sawant SB, Joshi JB, et al.: *J. membrane Sci.* 154 (1): 1-13 (1999).
- p) Jiang QL, Zhang WX, Liu JJ, el al.: *Acta Polym. Sinca*, 640-643 (1999).
- q) Zhang WX: *Acta Polym. Sinca*, (3): 287-291 (2000).
- r) Bajaj P, Gupta AP, Ojha N: *J. Macromol. Sci. – Rev. Macromol. Chemistry and Phy.*
- s) Bajaj P, Sreekumar TV, Sen K: *J. Appl. Polym.Sci*, 79 (9): 1640-1652 (2001).

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- v) Zhang WX, Wang YZ: *J. Appl. Polym.Sci*, 85 (1): 153-158 (2002).
- w) Devasia R, Nair CPR, Ninan KN : *J.Macromol. Sci. – Pure and Appl. Chem.* 39(7): 693-708 (2002).
- x) Devasia R, Nair CPR, Ninan KN : *Euro. Polym. J.* 38 (10): 2003-2010 (2002).
- y) Devasia R, Nair CPR, Ninan KN : *Euro. Polym. J.* 39 (3): 537-544 (2003).
- z) Zhang WX, Liu J, Wu G : *Carbon*, 41 (14): 2805-2812 (2003).
- aa) Suresh KI, Sitaramam BS, Raju KVS N : *Macromol. Mater. Engg.* 288 (12): 980-988 (2003).

4. Effect of an Acidic Comonomer on Thermo-oxidative Stabilization of Polyacrylonitrile, *J. Appl. Polym. Sci.*, 58, 1161, (1995).

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- a) Gupta AK, Paliwal DK, Bajaj P: *J. Appl. Polym. Sci.*, 59 (12): 1819-1826 (1996).
- b) Smith P. B. in *Analytical Chemistry*, 69, R95, (1997).
- c) Bajaj P. in *J. Appl. Polym. Sci.*, 74, 567, (1997).
- d) Surianarayanan M, Uchida T, Walakura M: *J. Loss Prevention in the Process Industries*, 11 (2): 99-108 (1998).
- e) Bajaj P, Bahrami SH, Sen K, et al.: *J. Appl. Polym. Sci.*, 74 (3): 567-582 (1999).
- f) Bajaj P, Sreekumar TV, Sen K : *Polymer*, 42 (4): 1707-1718 (2001).
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- j) Rangarajan P, Bhanu VA, Godshall D, et al. : *Polymer* 43 (9): 2699-2709 (2002).
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- n) Devasia R. Reghunadhan CP, Sivadasan NP, et al.: *J. Appl. Polym. Sci.*, 88 (4): 915-920 (2003).
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- p) Zhang SC, Wen YF, Yang YG, et al. : *New Carbon Materials* 18 (4): 315-318 (2003).

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5. Effect of Nature and Mole Fraction of Acidic Comonomers on the Stabilization of Polyacrylonitrile, *J. Appl. Polym. Sci.*, 59, 1819, (1996).

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- b) Mathakiy I. in *J. Appl. Polym. Sci.*, 69, 217, (1998).
- c) Polic A. L. in *J. Polym. Sci.*, PC 36, 813, (1998).
- d) Devasia R, Reghunadhan CP, Sivadasan NP, et al., *J. Appl. Polym. Sci.*, 88 (4): 915-920 (2003).
- e) Devasia R, Nair CPR, Ninan KN, *Eur. Polym. J.* (10): 2003-2010 (2002).
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- g) Rangarajan P, Bhanu VA, Godshall D, et al., *Polymer* 43 (9): 2699-2709 (2002).

6. Influence of Metal Ions on the Structure and Properties of Acrylic Fibres, *J. Appl. Polym. Sci.*, 67, 1647, (1998).

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- a) Bajaj P. in *J. Appl. Polym. Sci.*, 74, 567, (1999).

7. Melting behavior of acrylonitrile polymers *J. Appl. Polym. Sci.* 70 (13): 2703-2709 (1998).

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- a) Wiles KB, Bhanu VA, Pasquale AJ, et al. *J. Polym. Sci. Part – A Polymer Chemistry* 42 (12): 2994-3001 (2004).
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- d) Rangarajan P, Yang J, Bhanu V, et al *J. Appl. Polym. Sci.* 85 (1): 69-83 (2002.)
- e) Kozlov VV, Karpacheva GP, Petrov VS, et al. *Polym. Sci. Series A* 43 (1): (2001).
- f) BAJAJ P, Sreekumar TV, Sen K, *Polymer* 42 (4): 1707-17 (2001).
- g) Arsac A, Zerroukhi A, Ainsler A, et al. , *J. Appl. Polym. Sci.* 77 (6): 1316-1321 (2000).