**Brief CV**



**Prof. Yuvraj Singh Negi**

*Professor In-charge/Head*

*Saharanpur Campus-IIT Roorkee*

*M: 9319605330*

E-Mail: [ynegifpt@iitr.ac.in](mailto:ynegifpt@iitr.ac.in), yuvrajnegi@gmail.com

Dr. Negi has been serving as Professor In-charge/Head at Saharanpur Campus of Indian Institute of Technology Roorkee (IITR) since 2013. He received his Ph.D. degree in Polymer Science & Engineering from Centre for Polymer Science & Engineering (CPSE), IIT Delhi, India in 1983. He was Post Doctoral (Mombusho Fellow) with the Department of Organic Polymeric Materials, Tokyo Institute of Technology, Tokyo, Japan, during 1983-85.

In addition to the current assignment as Professor In-charge of Saharanpur Campus of (IITR), he is also heading four academic programs for Department of Polymer and Process Engineering, Department of Paper Technology, Department of Applied Science and Engineering and Centre of Packaging Technology. Since 2005, he is actively involved in teaching and research as Associate Professor/Professor at Saharanpur Campus, IITR together with his active involvement in developing unique academic programs in IIT system such as 5-Year Integrated Polymer Science and Technology Program, 4-Year B.Tech Polymer Science and Engineering, 2-Year M.Tech.-Packaging Science and Technology Program including state of the art UG/PG/Ph.D Polymer Laboratory Development at Saharanpur Campus.

Prior to joining the IIT Roorkee in 2005, he worked at different scientific capacities such as RA/CSIR Pool Scientist at CPSE, IIT Delhi (1984-87), Visiting Scientist GIRIO, Osaka, Japan (1987-88), Researcher, New Technology Group-4 of Showa Shell Petroleum Co. Japan (1988-93), Sr. Scientist, Shriram Institute, Delhi (1993-95), Adjunct Faculty, ABR Centre (1995-96), Manager Polymer R & D, Gharda Chemicals Bombay (1996-98), Sr. Scientist, C-MET, Pune under Ministry of Information and Communication Technology, New Delhi (1998-2005). His research interests are in the Polymer Science, Technology and Engineering particularly in Structure Property Relationship in Polymers, Synthesis of High Performance Engineering Polymers, Biopolymers, Organic/Polymeric Liquid Crystalline Materials, Polymeric Alignment Materials for LCDs, Biodegradable Polyesters/Copolyesters, High Thermally Stable Polymers, Biomedical Polymers for Drug Delivery Applications, PET/Co-PET, Fibers, PEEK Micro/Nanocomposites, Polymers for Microelectronics & Optoelectronics, Polymer/Paper based Composites, Recycling of Polymers, Hydrogen Storage, PEEK based fuel Cell Membranes, Biomaterials for Futuristic Technologies (Green Chemical Technologies), Polymer Film for Packaging and these research areas resulted in High Performance polymer based product technologies. His Major achievements include;

1) Development of New Ferroelectric and Antiferroelectric Liquid Crystal Display Devices, for the first time in the world, in New Technology Group, Showa Shell Petroleum co. Ltd. and awarded Patent Certificates of recognition from Showa Shell Petroleum Co., Tokyo Japan.

2) Development of High Performance Polyimide and other high polymers for R & D Scale development. He has handled several In-house and Sponsored Research Projects of high value (HR-HR Type) in India and Japan including R & D/Scale up Processes of High Performance Polymer Projects in Fluoro-Polyimide, Fluoro-Polyamide, PES, LCP, PES and PEEK. Currently he is involved in two projects Sponsored by ONGC and UAY (Uchhatar Abhishkar Yojna) and several consultancy and technical service oriented projects in the Department.

He has authored two reference books, has 22 patents (US, European, Japanese and Indian) and has over 10 Book Chapters, 112 international publications and more than 127 conference publications to his credit. He has also delivered several invited talks in India and abroad. One of his publications in Progress in Polymer Science (Impact Factor-28) received certificate of appreciation among 25 best papers from Elsevier Publication USA and another publication in Reinforced Composite Materials on PP/Pine Needle Fibre based Composite is among the highest downloaded publication in 2010.

He has supervised/supervising 17 Doctoral, 30 M.Tech and several B.Tech project students and has undertaken a number of sponsored/Industry/In House research projects and industrial consultancy/technical service assignments. Some of his polymer students are carrying out research/ internship in prestigious institutes and universities in abroad. He is on the editorial board of an international journal. He is the reviewer of several International Journals in Polymer Sci., & Tech./ Nanotechnology/Advanced Materials/Paper Science areas and actively extends services to evaluate the Ph.D, M.Tech theses of IITs/NITs/Central Univ./Reputed Private Univ./other research institutions.

He has delivered several invited talks in National/International Conferences (USA, Europe, Japan, Singapore, Sweden, Greece, Canada). He chaired technical sessions in International conferences in Polymer and Paper materials, Nanomaterials. He was elected as one of the innovators among 30 innovative idea projects in India as evaluated by Lockheed Martin, USA/FICCI Delhi, India. He was invited as a delegate member (former Monbusho Research Scholars) from five countries (India, Nepal, Pakistan, Srilanka and Bhutan) for interaction meetings with scholars of Japanese institutions by Ministry of Finance and Education, Tokyo, Japan (1998).

He has organized International and National conferences and workshops. Prof. Negi delivered video presentation exhibiting Lab infrastructure facilities of Saharanpur Campus in an inaugural IAPRI Packaging Conference in Valencia, Spain. Prof. Negi is the member of Governing Council Board of CPPRI, Ministry of Commerce, New Delhi, National level Research Policy Committee, ICFRE, FRI, Dehradun and Member of UCOST-General Science Planning Committee, Uttarakhand Govt., Dehradun. He is the member faculty/ scientist selection committee of UPSC (UK) and CIAB, Mohali. He is a member of professional polymer, paper, packaging and materials societies including life Member- Association of Japanese Government fellowship recipients in India since 1986. He has also served as Member Polymer Expert for RA/Post Doctoral Candidates recruitment board in CSIR and UGC. His scientific contribution currently is rated as highest in the Department (Research Citation: 2487, h-index: 27, i10 –index: 55). Currently he is serving as Editorial board member of three international journals published from USA and Europe.

**Detailed CV**



1. Name in full (in block letters): NEGI YUVRAJ SINGH .
2. Father’s Name: NEGI JYOTI SINGH .
3. Address for communication (Block letters): A-501, Triveni Apartment, .

Saharanpur Campus of IIT Roorkee, Paper Mill Road, Saharanpur-247001 (U.P.)

1. Contact Nos. 0132-2714303 (O), 0132-2714329(R), 9319605330 (M)
2. Nationality: Indian Email ID: yuvrajnegi@gmail.com , ynegifpt@iitr.ac.in
3. Date of Birth: 02-08-1957 Place of Birth: Kathiya Gaon, Tehri Garhwal (Uttarakhand)
4. Educational qualifications;

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| --- | --- | --- | --- | --- |
| **Exam/**  **Degree** | **Year** | **Board/Univ.** | **Subjects** | **Division/Grade** |
| B.Sc. | 1976 | Central HNB Garhwal Univ., Srinagar | Chemistry, Zoology, Botany, Basic Humanities & English | **I** (Class Rank Ist in Bio-Group) |
| M.Sc. | 1978 | Central HNB Garhwal Univ., Srinagar | Chemistry (*Organic Chemistry*) | **I** (Class Rank Ist) |
| Pre-Ph.D | 1979 | IIT Delhi | Polymer and Fibre Chemistry, Organic Reaction Mechanism, Optical Methods-A, Optical Methods-B | **A**- Grade |
| Ph.D | 1983 | IIT Delhi | Polymer Science and Technology **(*Thesis Title: Structure Property Relationship in Copolyesters)*** | - |
| Post Doct. | 1983 to 1985 | Tokyo Institute of Technology, Tokyo, Japan | Polymer Chemistry ***(Title: Development of New Tetraphenylthiophene based monomers and Polymers)*** | - |

1. Field / Area of Specialization: Polymer Science and Technology/ Synthesis, Characterization and Application of Polymer/Biopolymer/ Bio nanomaterials
2. List of all previous employment (Most recent first together with details of duties, Pay Scale and salary drawn) / Experience (Administrative, Academic & Research) in following sequence:

**Total Academic/Research Experience: ~ 31 Years [ Academic Teaching : ~12 Years Industrial R & D Research: ~9 Years Govt. R & D Research: ~10 Years ]**

**Research Citation: 2487 h-index: 27 i10 –index:55**

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| **S No.** | **Position held (at the level of)** | **Experience** | | | |
| **Academic / Teaching** | **Administrative** | **Research** | **If any** |
| i) | Professor-in-Charge-Saharanpur Campus of IIT Roorkee | B.Tech/M.Tech-Polymer Sci. & Tech. | Saharanpur Campus-Administration of Entire Campus and Reporting to Director-IITRoorkee | Research Guidance | Jan. 2013 till date |
| ii) | Head- 3-Academic Departments (Paper/Polymer/Applied Sci., /Packaging Program) | Teaching B.Tech/M.Tech/Ph.D Polymer Sci. & Tech. | Heading and Management of three Academic Departments | Research Supervision/  Project Mangement | Jan. 2013 till date |
| iii) | Professor/IIT Roorkee | B.Tech/M.Tech-Polymer Sci. & Tech. | Project Management | Research Guidance | Oct. 2012-till date |
| iv) | Associate Professor/IIT Roorkee | B.Tech/M.Tech-Polymer Sci. & Tech. | Project Management | Research Guidance | May 2005-Oct.2012 |
| v) | Scientist/ C-MET Pune  (Ministry Of Information and Communication) | - | Project Management | Research Guidance | Oct. 1998-April 2005 |
| vi) | Manager Polymer R & D/Gharda Chemical Bombay | Project student Guiding | Project Management | Commercial R & D Product Development | July 1996-Oct. 1998 |
| vii) | Adjunct Faculty/ABRC Delhi Univ. | - | - | Indo-US Project | Jan. 1996-Sept. 1998 |
| viii) | Sr.Scientist/Shriram Institute | - | Project Management | Research & Development | Sept. 1993-Dec. 1995 |
| ix) | Researcher/Central R & D, Atsugi Japan | Project student guidance | - | R & D LCD Project | Aug. 1988-Jan. 1993 |
| x) | Visiting Researcher/GIRIO, Osaka, Japan | - | - | R & D H2 Storage | Nov. 1987- March 1988 |
| xi) | Scientist Pool- CSIR/IIT Delhi | Teaching-B.Tech/M.Tech  students | - | R & D Research | Sept. 1985- Sept. 1987 |
| xii) | RA/DST/IIT Delhi | - | - | R & D Project | May 1985-  Sept. 1987 |

1. **Summary of Patents, Publications, Books/Book Chapters/Projects/ B.Tech/ M.Tech /Ph.D students super vision and Membership Awards and Recognition (Details given in separate sheets):**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **No. of  Patents** | **No. of Awards/ Recognitions** | **No. of Ph.D/M.Tech/ B.Tech students guided (Completed and in progress** | **No. of publications (National & Internationa)** | **No. of Books (published &  under  publication) + Book Chapters** | **No. of Projects  (Completed & in progress)** | **Details of Membership in societies** |
|  | **22**  US, European, Japanese and Indian Patents | Details attached | **Ph.D - 20** Completed-**10**  In Progress-**10**  **M.Tech-20** Completed  **B.Tech-40** Completed | Research Papers- **115**  Conf. Papers- **112**  Industrial R & D Short Experimental Reports -**150** | Books-**02**    Book Chapters-**10** | Completed-**08**  **I**n Progress-**02**  Consultancy Projects-10  Testing and Technical Services- Continued... | **10** |

1. **Ph.D Students Supervision (20)**

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| S.N | Name | Degree | Title of Thesis | Year of Award | Current Position |
| **Ph.D work in Progress (5)** | | | | | |
| 1. | ASHOK KUMAR |  | PEEK Based High Performance Polymer Composites | Conti..(2018--) | Scientist-D (DMSRDE-Kanpur, DRDO Sponsored) |
| 2. | S.BHARDWAJ | Ph.D | Packaging Materials Development | Conti.. (2018--) | Research Officer-Paper Industry Sponsored, Avantha R &D Centre, BILT Yamuna Nagar |
| 3. | MADHUPARNA RAY | Ph.D | High Performance Polymers for Membrane | Conti..(2017--) |  |
| 4. | A. PANDEY | Ph.D | Biomaterials | Conti..(2016--) |  |
| 5. | ASIF ALI | Ph.D | Synthesis and characterization of Chitosan based porous composites for tissue engineering applications | Conti... (2016) |  |
| **Ph.D Thesis Submitted /to be submitted (5)** | | | | | |
| 6. | FARHA DEEBA | Ph.D | Studies on oleaginous yeast for biodiesel production | To be Submitted  (Dec.2019) |  |
| 7. | SALEHEEN BANO | Ph.D | Cellulose nanocrystal reinforced Poly(ether ether ketone) based composites for fuel cell application | To be Submitted  (Dec.2018) | Project Associate-ONGC Project  IIT Roorkee |
| 8. | SAURAJ | Ph.D | Synthesis, characterization and *in-vitro* release studies of colon specific prodrugs | To be Submitted  (Aug. 2018) | Project Associate-UAY Project  IIT Roorkee |
| 9. | RUCHIR PRIYADARSHI | Ph.D | Biodegradable polymers as potential anti-microbial food packaging materials | Submitted  (2018) | Project Associate-UAY Project  IIT Roorkee |
| 10. | BIJENDER KUMAR | Ph.D | Structure property relationship of heat-resistant salt of poly(potassium 1-hydroxy acrylate) | Submitted  (2018) | Project Associate-ONGC Project  IIT Roorkee |
| **Ph.D Degree Awarded (10)** | | | | | |
| 11. | POORNIMA MITAL | Ph.D | Modeling and Simulation of Organic Material Based Electronic Devices and their Application | 2016 | Associate Professor,  Department of Electronics and Communication Engineering Delhi Technological University ,Delhi |
| 12. | DEVESH SHUKLA | Ph.D | Functionalization of Poly ether-ether Ketone (PEEK) for Fuel cell applications | 2015 | Senior Scientist-R & D  New Product Development Group, Reliance Research Centre, Reliance Industries Ltd. Vadodara |
| 13. | RENU TYAGI | Ph.D | Studies on PES/PMMA based Guest-Host Systems and Their Optoelectrical Characterization | 2015 | Consultant-Technical services-UAY Project |
| 14. | SAMIT KUMAR | Ph.D | Studies on corn-cob based nanoparticles for biomedical applications | 2014 | Assistant Professor  Department of Chemistry, AKS University, Sherganj, Panna Road, Satna-485001 (MP) |
| 15. | BRIJESH KUMAR | Ph.D | Organic Thin Film Transistor Device Modeling, Circuit Co-Design and Performance Analysis | 2014 | Associate Professor  Department of Electronics and Communication Engineering,  Madan Mohan Malaviya University of Technology Gorakhpur (UP)-273010 India |
| 16. | ANUJ KUMAR | Ph.D | Fabrication and properties of cellulose/polyvinyl alcohol based biocomposite scaffolds | 2014 | Assistant Professor (Int. Research Professor)  School of Chemical Engineering, Yeungnam University, Gyeongsan, South Korea |
| 17. | PRADEEP KUMAR | Ph.D | Studies on Fiber Loading by In Situ Precipitation | 2013 | Dy.General Manager- Paper Tech. and Head of Production Star Paper Mills Ltd. Saharanpur |
| 18. | T. MAHARANA | Ph.D | Synthesis and charaterization of polylactic acid and their nanoparticles | 2010 | Assistant Professor  Department of Chemistry, NIT, Raipur |
| 19. | RAMAKRISHNA MALKAPURAM | Ph.D | Development and Characterization of Natural Fiber Reinforced Polypropylene Composites | 2010 | Professor  Department of Mechanical Engineering,  Dean- IQAC,  Vignan's Foundation for Scienece, Technology Guntur, Andhra Pradesh |
| 20. | R.K. GOYAL | Ph.D | Preparation and characterization of high performance polymer matrix composites based on PEEK & AlN/Al2O3 dispersions | 2007 | Professor  Department of Metallurgy, MNIT, Jaipur |

1. **M.Tech Students Supervision**

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| **S. No.** | **Name** | **Program** | **Title of the Thesis** | **Year of Award** | **Present Position** |
| 1. | VIKASH BATSYAYAN | M.Tech | Studies on bagasse fiber by in situ preparation of calcium carbonate using polyacrylamide | 2012 |  |
| 2. | DOLIKA GARG | Intg. M.Tech | Synthesis and characterization of membranes for nanofilteration | 2012 |  |
| 3. | HIMANSHU CHARAN | Intg. M.Tech | Modification and characterization of FHUA channel protein for applications in functional membranes | 2013 |  |
| 4. | PREM CHAND MEENA | Intg. M.Tech | Molecular dynamic simulation study on phosphonated poly ether ether ketone (P-PEEK) for application in proton exchange membrane fuel cell (PEMFC) | 2013 |  |
| 5. | AMIT GAHLAUT | Intg. M.Tech | Comprehensive study on rubber matrix and textile fiber reinforcers for convener belting system of transport | 2013 |  |
| 6. | ABHISHEK SANORIA | Intg. M.Tech | Controlling the wettability of conducting polymers | 2013 |  |
| 7. | KAYARKAR SUMEET SURESH | Intg. M.Tech | Synthesis of poly lactic acid and preparation of PLA/EVA blends using di-cumyl peroxide by reactive extrusion | 2013 |  |
| 8. | NALLAPANENI ASRITHA | Intg. M.Tech | Synthesis of polymer nanoparticles for structural color applications | 2014 |  |
| 9. | PRATAP REDDY N | Intg. M.Tech | Modelling and simulation of polypropylene production using ASPEN and optimization | 2014 |  |
| 10. | SHRUTI PATTANAIK | Intg. M.Tech | Gold nanoparticles uptake in polymersomers for biomedical applications | 2014 |  |
| 11. | PALLAVI BHAMBRI | Intg. M.Tech | Study of single and two-phase flow of water with polymer additives | 2014 |  |
| 12. | NIVEDITA SHARMA | Int. M.Tech | Synthesis and Characterization of Thermo tropic chain-liquid crystal polymer | 2015 |  |
| 13. | PANKAJ KUMAR | Int. M.Tech | Preparation and characterization of chain- liquid crystal polymer | 2015 |  |
| 14. | VIVEK PANDEY | Int. M.Tech | Investigation of Large Strain Dissipation Mechanism in the Debonding Region of Pressure Sensitive Adhesives | 2016 |  |
| 15. | Sachin Bhagchandani | Int. M.Tech |  | 2016 |  |
| 16. | SAHITYA MOVA | Int. M.Tech | Biodegradable Polyesters based on Rnewable Resources for Biomedical Applications | 2016 |  |
| 17. | MANOJ SATHWANE | M.Tech-Packaging | Improvement of mechanical, thermal, barrier, water sorption properties of biodegradable active packaging material | 2016 |  |
| 18. | SUKHJEET KAUR | M.Tech-Packaging | Chitosan-metal oxide Nanocomposite films as potential food packing: A preliminary study | 2016 |  |
| 19. | ARYAMAN | M.Tech | Synthesis and characterization of poly(3-hexylthiophene-2,3-diyl) with tertaphenyl thiophene spacers for applications in organic light emitting diodes | 2016 |  |
| 20. | RAJKUMAR | M.Tech | Innovative approach for design and development for packaging of pharmaceutical syrup | 2017 |  |
| 21. | SHUBHANG BHARDWAJ | M.Tech-Paper | Improving the quality of paper and board for packaging industry using a biopolymer in wet-end and surface sizing | 2017 |  |
| 22. | VIKASH KUMAR | M.Tech-Packaging | Study of chitosan biodegradable polymer as a packaging material | 2017 |  |
| 23. | DAKURI RAMAKANTH | M.Tech-Packaging | Examining The Effects of Integration of Highly Fibrillated Cellulose Middle Layers in Packaging Boards as Biogenic and Recyclable Barriers against Mineral Oil | 2018 |  |

1. Project Report “Statistical Evaluation of Utilizing Non-wood Fibres for Fine Grade of Uncoated and Coated Papers” Submitted by Ms. Heinemann, Maria Christiane under the supervision of Prof. H. Grobmann, Prof. A.K. Ray and Prof. Y.S. Negi from Technische Universitat Dresden, Germany.
2. **Any other relevant information:**

**i. Course Development**: 5-Year Integrated Polymer Science and Technology Program

Course/ Laboratory Development at IIT Roorkee

4-Year B.Tech Program in Polymer Sci., and Engineering

2-Year M.Tech.-Packaging Science and Technology Program

**ii. Courses Taught**:

Introduction to Polymer Sci & Tech., Polymer Sci. & Engineering, Polymer & Environment (V

Year), Electronics and Conducting Polymers (IV Year), Polymer Films and Packaging Technology

(IV Year), Polymer Fiber Technology (IV Year), Polymer Chemistry (II Year), Macromolecular

Chemistry (III Year–Theory & Lab),Polymer Characterization (III Year –Theory, Polymer Materials

(III Year), Polymer Product Technology (III Year ), Organic Chemistry (I Year-Theory &

Lab),EnvironmentStudies (I Year), Ecology & Environment (III Year), Colloid Chemistry (II/III Year)

Group Discussion (II Year), Polymer Chem. Practicals (B.Tech-III Y & M.Tech.-I Y, CPSE, IITD),

Advanced Characterization Techniques (Pre-Ph.D students)

1. **Areas of Interest :**

Synthesis, Characterization and Applications of Polymers [Novel Organic Monomers/Polymers, Liquid Crystalline Polymers Biodegradable Polyesters/Copolyesters, High Thermally Stable Polymers-PI,PA,PIA,PEA & BMI Resins, Biomedical Polymers, PET/Co-PET, Fibers, PEEK Micro/Nanocomposites, Polymers for Microelectronics & Optoelectronics, Polymer/Paper based Composites, Simulation of Properties of High Performance Polymers, Recycling of Polymers, Hydrogen Storage, Nanomaterials for Futuristic Technologies (Green Chemical Technologies), Polymer Film for Packaging

1. **Technology** **Development**:

Contributed in New Type of LCD Project First time in the World (Ferroelectric and Antiferroelectric Liquid Crystals), Central R & D Showa Shell Petroleum Co. Japan (One of the largest refinery/ Central R & D Research Companies in Japan) R & D/Scale up Processes of High Performance Polymer Projects (Fluoro-Polyimide, F-Polyamide, PES, LCP and PEEK)

1. **Reviewer:** Several International Journals in Polymer Sci., & Tech./ Nanomaterials areas
2. **Innovator:** One of the innovators among 30 innovative idea projects evaluated by Lockheed Martin, USA/FICCI Delhi, India
3. **Thesis Examiner:** Ph.D, M.Tech.Thesis Examiner of IITs/Central and Govt. R & D institutions

**19. Administrative Responsibilities in the Institute and Department level:**

1. Member: Institute Senate, IIT Roorkee
2. Member-IPR Cell, IIT Roorkee
3. Member-C-TRANS, IITR
4. Professor-in-Charge- Saharanpur Campus
5. Head-3 Academic Departments (Polymer & Process Engineering, Paper/Packaging & Applied Science and Engg.), Saharanpur Campus, IIT Roorkee
6. Coordinator-Preparatory Course of IIT Roorkee
7. Chairman-Departmental Administrative Committee, Saharanpur Campus
8. Chairman-Departmental Faculty Committee, Saharanpur Campus
9. Chairman-Professorial Committee, Saharanpur Campus
10. Chairman-Purchase Committee, Saharanpur Campus
11. President –Mandir Samity, Saharanpur Campus
12. O.C Training & Placement (2006-2009), Saharanpur Campus

**20 .Assignments in Abroad:**

1. Visiting Researcher-Govt. Industrial Research Institute OSAKA, under Ministry of Industry and Trade, Tokyo, JAPAN (Nov.1987- March 1988).
2. Researcher-Central R & D Lab, Showa Shell Petroleum Co. Atsugi, JAPAN (Aug. 1988- Jan. 1993).
3. Invited Delegate Member from Japanese Govt. Monbusho Scholars from South East Asian Countries (One Week Program in 2000).
4. Invited Talk and interactions meetings with IMRE Researchers, Singapore University (One Week Program in 1998).
5. Invited Talks/Chairing Technical Sessions in National/International Conferences in **USA, Europe, Japan, India, Singapore, Sweden, Greece, Canada, Spain and Switzerland.**

**21. Industry and Sponsored and Technical Consultancy Projects Handled:**

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| --- | --- | --- | --- | --- |
| **S. No.** | **Project** | **Year** | **Amount (Rs.) in Lacs** | **In Progress/Completed** |
| 1. | ONGC Project | 2018 | 74 | Conti… |
| 2. | UAY-MHRD/Industry Project | 2018 | 82 | Conti… |
| 3. | DST- FIST Project | 2012-2017 | 375 | Completed |
| 4. | Technical/Consultancy Services to Industries | 2013-conti | 100 | Conti… |
| 5. | In House R & D Projects (C-MET, Pune) sponsored by DOE Ministry of Infotech, Delhi | 1998-2005 | 250 | Completed |
| 6. | Technical/Consultancy Services to Industries in C-MET Pune | 2000-2004 | 70 | Completed |
| 7. | Industrial R & D on High Performance Polymers (PES/PEEK) in Commercial Scale (In House Project) Development at Gharda Chemical, Mumbai. | 1996-1998 | Several Crores | Completed |
| 8. | Industrial R & D In House Project Antirain Repel Coatings, SRI Delhi 0.50 Lac Sponsored Project + In house R & D Projects) | 1993-1995 | 15 | Completed |
| 9. | CSIR Project at SRI Delhi | 1993-1995 | 3.0 | Completed |
| 10. | Gupta Package industry,Delhi | 1994-1995 | 0.50 | Completed |
| 11. | Liquid Crystal Display (LCD) Display Project sponsored by Showa SHELL Petroleum Co. Ltd.,Japan | 1988-1993 | Multi Million Japanese-YEN | Completed |
| 12. | H2-Storage Project (Sponsored by Ministry of Industry and Trade, Tokyo, Japan) | 1987-1988 | Multi Million Japanese-YEN | Completed |

**21. Membership:**

1. EC-Member-Asian Polymer Association, 2007----cont.
2. Secretary - Asian Polymer Association, 2007
3. American Chemical Society, USA, (1989-93)
4. International Liquid Crystal Society, U.K. (since 1991)
5. Society of Polymer Science, Japan, (1990-1993)
6. Soc. Adv. Mat. Proc. Engg. (SAMPE), Japan (1991-1992)
7. Indian Plastic Institute (IPI), (1995-2000)
8. Life Member, Association of Japanese Government Research Fellowship Recipients-MOSAI (since 1987).
9. Life Member, Indian Liquid Crystal Society, (since 1997)
10. Life Member, Indian Materials Research Society (MRSI), (since 1997)
11. Life Member, Indian Polymer Society, India, (since 2000)
12. Electron Microscopy Society of India (EMSI), 2002-03

**22. Honors/Awards and Recognition:**

(1) Patent Award- (1989 - 1992) (Central R & D Lab, Showa Shell Petroleum,Japan)

(2) Secretary-Asian Polymer Association (APA) (2007- 08)

(3) Executive Member-APA, 2008 – 09

(4) Recognized Ph.D Guide (2004 -12) -Pune University

(5) Conference Chair-Int. Conf. on Soft Computing, 18- 20thDec., 2015 at Saharanpur Campus, IIT Roorkee.

(6) Member-Plastics Packaging Sectional Committee, PCD-21, Bureau of Indian Standards, Manak Bhawan, Bahadur Shah Zafar Marg, New Delhi

(7) Member-Selection Board of Lecturer/Assistant Professor/Technical Staff, UPSC,Haridwar (UK)

(8) Member-Governing Council Central Pulp and Paper Institute (CPPRI) at Ministry of Commerce and Industry, Udyog Bhawan, New Delhi

(9) Video Presentation of Saharanpur Campus/ Research Talk on Packaging Program in inaugural session of 27th AIPRI Symposium, Valencia, Spain, June, 2015.

(10) Coordinator, Two-day Workshop on Advances on Packaging Technology at SRE Campus 6-7 October, 2015

(11) Conference Session Chairman in Paperex Conference and Exhibition: Paperex-2015 and 2017 Int. Conf. on Pulp,Paper and Allied industry, 1-3 November 2015 and 2017, Pragati Maidan, New Delhi, India

(12) Board Member:Selection Committee of Scientific Staff/Faculty at Centre of Innovative and Applied Bioprocessing (CIAB), Mohali, 12th October, 2015.

(13) Member: Advisory Board-National Workshop on “Recent Trends in Environmental Science and Carbon Management’’on 19-20th Nov. 2015 at Central University Himachal Pradesh, Dharmsala.

(14) Member: Advisory Committee, Asian Polymer Association Conference, APA-2015 at Rajkot, 29- 31st Oct., 2015.

(15) Member-National Level Research Policy (RPC), Indian Council of Forestry Research & Education, FRI, Dehradun.

(16) Expert Member-Evaluation of Concept notes for formulating All India Coordinated Research Projects, Indian Council of Forestry Research & Education, FRI, Dehradun.

**23. TECHNOLOGY DEVELOPMENT:**

1. FICCI-LOCK HEED MARTIN evaluated our innovative research ranking with in 30 out of 360 technologies India wide. Technology is ready for transfer on Polymer for Optoelectronic Application. (2008- cont.)
2. Polymer Resin Development for Standard Color Co. Chennai. (2002-2003)
3. Polyimide (Fluorine and Non-Fluorine Containing) Resin for Coating Application developed for ISRO, Trivandrum, Kerala. (2001-2002)
4. Development of Thermotropic Liquid Crystals at Gharda Chemical, Bombay, involved in the Development of PEEK and PES Commercial Project at Gharda Chemical, Bombay (Now SOLVAY Co. Gujarat). (1996-98)
5. Development of Rain Repel/Antifog Coating, SRI Delhi. (1994)

1. PVC based Shrink Film for Packaging developed for Gupta Packaging Industries in Delhi, India. (1994)
2. Polyimide, Polyamide and Polyamide-imide resin for Alignment Membrane developed for FLCD/AFLCD devices at Showa Shell Petroleum Co. Japan. (1989-1993)
3. Development of 4,4-Dichlorodiphenyl Sulfone-Monomer for Polymer technology Transferred to DIACEL Co./NRIO Japan. (1987-1988)
4. Tetraphenylthiophene containing Dicarboxylic Acid Monomer, Polyamide Resin, Polyester Resin and Polyamide-Ester Resin Technologies Transferred to Tokyo Institute of Technology, Japan. (1983-85)

**24. INDUSTRIAL R&D REPORTS/ PATENTS/BOOKS/BOOK CHAPTERS/PUBLICATIONS/CONFERENCES**

1. Monthly Reports inside R&D more than 60 **Nos.** at Central R&D Laboratory, Atsugi, Showa Shell Sekiyu K.K., Kanagawa-ken, Japan (1988-1993).
2. Weekly Report inside R&D more than **75 Nos.** at R&D Centre Gharda Chemicals Ltd., Dombivali, Mumbai.
3. Monthly/Quarterly Report Inside R&D more than **20 Nos.** at R&D Centre Gharda Chemicals Ltd. Dombivali, Mumbai.

**PATENTS**

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