



## MANAV RACHNA UNIVERSITY, FARIDABAD

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### Prof. (Dr.) Pradeep K. Varshney

**Designation:** Professor & Dean

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**Experience:** 29 Years

**Scopus Link**

<https://www.scopus.com/authid/detail.uri?authorId=7005001701>

**Google Scholar Link**

<https://scholar.google.com/citations?user=F1KjLRIAAAAJ&hl=en>



**Research Interest :** Electrochemical Batteries, Polymer Electrolytes, Antimicrobial nano-coatings and Sustainability issues -Lithium & Lead recovery from batteries waste

#### + Journal Publication Details:

Kalpna Varshney, Pradeep K. Varshney, KajalGautam, Monika Tanwar, Meghna Chaudhary (2020), "**Current trends and future perspectives in the recycling of spent lead acid batteries in India**", Materials Today: Proceedings, 2019, 26, pp. 592-602, 14 January 2020, Elsevier, Scopus DOI: <https://doi.org/10.1016/j.matpr.2019.12.168>

Malhotra, S., Tang, Y., Varshney (2019), "**Pradeep K, Fabrication of highly sensitive non-enzymatic sensor based on Pt/PVF modified Pt electrode for detection of glucose**", Journal of the Iranian Chemical Society, 2019, 17(3), 521-531. Springer, Scopus, WOS, IF 1.552

Shveta Malhotra, Yijun Tang, Pradeep K. Varshney (2019), "**Non-enzymatic glucose sensor of high sensitive fabricated with direct deposition of Au particles on Polyvinylferrocene fil modified Pt electrode**"; Chemical Papers, Springer, Vol. no.73, Issue 8(2019) pp-1987–1996 Springer, Scopus, WOS (Impact Factor-1.246)  
ISSN / eISSN: **2585-7290 / 1336-9075**

Shikha Gupta; Pradeep K. Varshney (2019), "**Effect of Plasticizers on the Conductivity of Carboxymethyl Cellulose based Solid Polymer Electrolytes**", **Polymer Bulletin, Springer** 2, 6 (2019) 1613-17Scopus, WOS,  
DOI:Org/10.1007/s00289-019-02714-1 (Impact Factor-1.5) ISSN / eISSN:0170-0839 / 1436-2449

Shveta Malhotra, Yijun Tang, Pradeep K. Varshney (2018), "**Amperometric enzyme-free glucose sensor based on electrodeposition of Au particles on Polyaniline film modified Pt electrode**", ActaChimicaSolvenica, 65, 3(2018) 687-697, DOI: 10.17344/acsi.2018.4386 DOI:10.17344/acsi.2018.4386 Scopus, WOS (Impact Factor-1.14)  
ISSN / eISSN:**0567-7351**

Shveta Malhotra, Yijun Tang and Pradeep K. Varshney (2018), "**Non-Enzymatic Glucose Sensor based on Electrodeposition of Platinum Particles on Polyaniline Modified Pt Electrode**",  
Analytical & Bioanalytical Electrochemistry, Vol-10, No. 6 (2018) 699-715 Springer, Scopus, WOS (Impact Factor-0.75)  
ISSN / eISSN:1618-2642 / 1618-2650

Sandeep Srivastava and Pradeep K. Varshney (2018), "**Conductivity and structural studies of PVA based mixed-ion composite polymer electrolytes**", International Journal of Engineering & Technology (UAE) ISSN 2297-623X, Vol. 7, No.2 (2018) 887-890 Scopus (Impact Factor-0.10)

Shikha Gupta & Pradeep K. Varshney (2017), "**Effect of Plasticizer on Structural and Electrical Properties of Hydroxyethyl Cellulose (HEC) based Polymer Electrolyte**", Ionics, Vol 23, Issue 6 (2017) pages 1613-1617, DOI: 10.1007/s11581-017-2116-8, 27 April 2017 (2017) Springer, Scopus, SCIE, WOS (Impact Factor-2.19) ISSN / eISSN: 0947-7047 / 1862-0760

Sandeep Srivastava and Pradeep K. Varshney (2017), "**A structural study of mixed ion PVA based composite polymer electrolyte using X-ray diffraction studies**", International Journal of Applied Engineering Research (IJAER) ISSN0973-4562, Vol. 12, No.11 (2017) 2926-2928 Scopus (Impact Factor-0.13)

Richa Pandey, Rajesh Tripathi& Pradeep K. Varshney (2016), "**Current Status of Solar Distillations: A Review**"

International Journal of Research in Applied, Natural & Social Sciences (IMPACT: IJARANSS) Pages 37-48, Vol.4, Issue-2, Feb-2016 (2016) ISSN: 2321-8851 <a href="http://oaji.net/articles/2016/491-1458725802.pdf">http://oaji.net/articles/2016/491-1458725802.pdf</a>
Shveta Malhotra, Pradeep K. Varshney (2015), <b>"Effect of fillers on Composite Polymer Electrolytes-A Study"</b> , International Journal of Applied Engineering Research (IJAER) ISSN 0973-4562 Vol. 10 No.94 108-112 (2015) Scopus
Shveta Malhotra, Pradeep K. Varshney (2015), <b>"Future Prospects of Polymer Electrolytes"</b> , IJSR - INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH, Volume 4, Issue 10, Special Issue Oct- 2015 (2015) Pages 43-45, ISSN No 2277-8179, <a href="http://www.worldwidejournals.com/international-journal-of-scientific-research-(IJSR)/special_file.php?val=October_2015_1446891931__15.pdf">http://www.worldwidejournals.com/international-journal-of-scientific-research-(IJSR)/special_file.php?val=October_2015_1446891931__15.pdf</a>
Sangita Banga, Pradeep K. Varshney and Naveen Kumar (2015), <b>"Purification of Jatropha curcas Based Biodiesel by Dry Washing, Using Banana Peel and Mushroom Powder as Natural Adsorbents"</b> Biofuels., Vol. 6, Issue 5-6, Pages 261-267, 2015, DOI-10.1080/17597269.2015.1092101 Taylor and Francis, Scopus ISSN / eISSN: 1759-7269 / 1759-7277
Richa Pandey, Rajesh Tripathi, Pradeep K. Varshney (2015), <b>"Experimental Analysis of Solar Stills using Nano Condensing Glass"</b> , International Journal of Applied Engineering Research (IJAER), 10(23), 27483-27494, 2015 Scopus Print ISSN 0973-4562. Online ISSN 0973-9769
Sangita Banga, Pradeep K. Varshney and Naveen Kumar, Madan Pal Singh (2014), <b>"Optimization of Parameters for purification of Jatropha Curcas Based Biodiesel using Organic Adsorbents"</b> , International Journal of Renewable Energy Research (IJRER) Vol. 4, No. 3, 2014 Scopus
Sangita Banga, Pradeep K. Varshney and Naveen Kumar (2012), <b>"Biodiesel Purification Using Organic Adsorbents: A Preliminary Study"</b> J. of Biofuels, Vol. 3, pp:112-118, 2012
Pradeep K. Varshney, Ms. Shikha Gupta (2011), <b>"Natural Polymer-based electrolytes for electrochemical devices: a review"</b> Ionics, Springer Publication, Volume 17, pp: 479-483, 2011 <a href="http://link.springer.com/article/10.1007/s11581-011-0563-1/fulltext.html">http://link.springer.com/article/10.1007/s11581-011-0563-1/fulltext.html</a> Springer, Scopus, WOS, SCIE (Impact Factor-2.19), ISSN / eISSN: 0947-7047 / 1862-0760
Sangita Banga and Pradeep K. Varshney (2010), <b>"Effect of impurities on performance of biodiesel: A Review"</b> Journal of Scientific & Industrial Research, Vol 69, 575-579, 2010, ISSN 0368-4229
P. Varshney, M. Deepa, S.A. Agnihotry, K.C. Ho (2003), <b>"Photo-polymerized films of Li ion Conducting solid polymer electrolytes for Electrochromic windows (ECWs)"</b> , Solar Energy Materials and Solar Cells, 79 (2003) 449-458 Elsevier, Scopus, Impact Factor-3.88, ISSN / eISSN: 0927-0248 / 1879-3398
P. Varshney, M. Deepa, N. Sharma, S.A. Agnihotry (2002), <b>"Transmission enhancement in tin oxide conductive coatings for ECWs"</b> , Solid State Ionics, 152-153 (2002) 877-881 Elsevier, Scopus, WOS, SCIE (Impact Factor-2.64), ISSN / eISSN: 0167-2738 / 1872-7689
Nidhi Sharma, M. Deepa, P. Varshney, S.A. Agnihotry (2002), <b>"FTIR and absorption edge studies on tungsten oxide based precursor materials synthesized by sol- gel technique"</b> , J. of Non-Crystalline Solids, 306 (2002) 129-137 Elsevier, Scopus (Impact Factor-2.6), ISSN / eISSN: 0022-3093 / 1873-4812
N. Sharma, M. Deepa, P. Varshney, S.A. Agnihotry (2001), <b>"FTIR investigations of Tungsten oxide electrochromic films derived from organically modified peroxotungstic acid precursors"</b> , Thin Solid Films, 401 (2001) 45-51 (Impact Factor-1.888)
N. Sharma, M. Deepa, P. Varshney, S.A. Agnihotry (2000), <b>"Influence of organic additive on the morphological, electrical and Electrochromic properties of sol-gel derived WO<sub>3</sub> coatings"</b> , J. of Sol – Gel Science and Technology, 18 (2000) 169, (Impact Factor-1.896)
M. Deepa, Nidhi Sharma, P. Varshney, S.P.Varma, S.A.Agnihotry (2000), <b>"FTIR Investigations of Solid Precursor Materials for Sol-Gel Deposition of WO<sub>3</sub> based Electrochromic Films"</b> , J. of Material Science, 35 (2000)1-6
S.A. Agnihotry, N. Sharma, P. Varshney, S.S. Sekhon(2000), <b>"Li<sup>+</sup> conducting gel electrolyte for Electrochromic Windows"</b> , Solid State Ionics, 136-137 (2000) 573-576 Scopus, WOS, SCIE (Impact Factor-2.751)
M. Deepa, N. Sharma, P. Varshney, S. A. Agnihotry and R. Chandra (2000), <b>"An Insight Into the Interactions Between LiN(CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub> - γBL/DMF – PMMA by FTIR Spectroscopy"</b> , Ionics, 6 (2000) 408-414 Scopus, WOS, SCIE (Impact Factor-2.347)
S. A. Agnihotry, P. Varshney, S.S. Sekhon (1999), <b>"PMMA Based Gel Electrolyte For EC Smart Windows"</b> ElectrochimicaActa, 44 (1999) 3121, Impact Factor-5.11, ISSN / eISSN:0013-4686 / 1873-3859

P.K. Varshney, Nidhi, R. Ramachandran, S.A. Agnihotry (1999), <b>"Colloidal Tungstic Oxide Films for Electrochromic Applications : Preliminary Studies"</b> , Ind J Pure & Applied Physics, 37 (1999) 262
R. Ramachandran, Nidhi, P.K. Varshney, S.A. Agnihotry (1999), <b>"Sol-gel Deposition of EC-WO<sub>3</sub> Films using a Precursor with Enhanced Stability"</b> , Ind J Pure & Applied Physics, 37 (1999) 353-355, Scopus Listed, ISSN / eISSN: 0019-5596 / 0975-1041
A.P.Gupta and Pradeep K. Varshney (1998), <b>"Synthesis, Characterization and Ion Exchange Properties of Zirconium (IV) tungstophosphate, a Cation Exchanger"</b> , Synth. React. Inorg. Metal-Org. Chem. 28, 11 (1998) 105, ISSN 0094-5714 (Scopus Listed), Impact Factor-0.685
A.P. Gupta and Pradeep K. Varshney (1998), <b>"Cation Exchange Studies on Various Phases of Zirconium (IV) tungstophosphate; Separations of Zn (II) from others"</b> , Res. J. of Chem. Environ <b>2</b> , (1998) 4 ISSN 0972-0626
A.P. Gupta and Pradeep K. Varshney (1997), <b>"Investigation of Some Kinetic Parameters for M<sup>2+</sup>-H<sup>+</sup> Exchange on Heteropolyacid Salt Zirconium (IV) tungstophosphate-A Cation Exchanger"</b> Reactive & Functional Polymers, 32 (1997) 67, ISSN 09231137 (Scopus Listed)
A.P. Gupta & Pradeep K. Varshney (1996), <b>"Studies on Tetracycline hydrochloride sorbed Zirconium (IV) tungstophosphate; La (III) Selective Chelating Ion Exchanger"</b> Reactive & Functional Polymers, 31 (1996) 111, ISSN 09231137 (Scopus Listed)
A.P. Gupta, N.K. Sandle & Pradeep K. Varshney (1995), <b>"Sorption of ammonia on crystalline polyelectrolyte Tantalum tungstate"</b> Indian J. of Chemistry, 34 A (1995) 296 ISSN 00195103 (Scopus Listed)
A.P. Gupta, S. N. A. Rizvi & Pradeep K. Varshney (1993), <b>"Ion Exchanger behaviour of Tin (IV) molybdophosphate towards alkaline earth metal ions"</b> , Asian J. of Chemistry, 5 (1993) 1001, ISSN 09707077 (Scopus Listed)
Pradeep Varshney, M. Deepa, Nidhi Sharma, S.R.Gupta, B.B.Sharma, S.A.Agnihotry, <b>"Sol-gel derived Tin Oxide Film as a Passive Counter Electrode for Electrochromic Devices (ECDs)"</b> Ion Conducting Materials: Theory and Applications, edited by A.P. Kulkarni and P. Gopalan, 82-87, 2001
M. Deepa, Nidhi Sharma, Pradeep Varshney, R. Chandra, S. A. Agnihotry, <b>"Pronounced Influence of Solvent Characteristics on <math>\sigma_{RT}</math> of Electrolytes for ECDs"</b> , Ion Conducting Materials: Theory and Applications, edited by A.P. Kulkarni and P. Gopalan, 74-81, 2001.
Nidhi Sharma, M. Deepa, Pradeep Varshney, U.C.Upreti, R. Ramachandran, S.A. Agnihotry, <b>"A Comparative study of Precursor Materials for Casting Sol-gel based Tungsten Oxide Films"</b> , Ion Conducting Materials: Theory and Applications, edited by A.P. Kulkarni and P. Gopalan, 67-73, 2001

#### + Conference Publications:

Pradeep K. Varshney, Kalpna Varshney, KajalGautam, Meghna Chaudhary, Monika Tanwar (2019), <b>"Current Trends in the recycling of Spent Lead Acid Batteries in India"</b> paper presented in 3rd International Conference on Science, Engineering and Materials dated 19-21 July 2019 (O-56).
Sandeep Srivastava & Pradeep K. Varshney (2018), <b>"Electrical properties of mixed ion composite polymer electrolyte for electrochemical devices based on PVA-ammonium chloride"</b> presented as poster in National Conference on Recent Frontiers in Chemistry (NCRFC-2018) at HNB University GarhwalUtrakhand on 26-27 April 2018.
Shveta Malhotra, Yijun Tang and Pradeep K. Varshney (2017), <b>"Development of Non-Enzymatic Glucose Sensor based on Pt@PVF Modified Pt Electrode"</b> , Poster presented by Shveta Malhotra in 8 <sup>th</sup> International Conference & Exhibition on Biosensors and Bioelectronics held during 27-28 September 2017 in Chicago, USA
Pradeep K. Varshney, Shveta Malhotra (2017) <b>"Electrochemical Green Batteries"</b> presented and published in proceedings of National Conference on Recent Trends in Engineering Science & Management, page no. xv, held at Shri Ram College of Engineering & Management, Palwal during 18-19 April 2017.
Shikha Gupta, Pradeep K. Varshney(2017), <b>"LACTIC ACID DOPED BIODEGRADABLE GEL POLYMER ELECTROLYTE"</b> presented as poster by one of the author Ms. Shikha Gupta, Research Scholar in National Conference New Horizons in Technology for Sustainable Energy and Environment on March 9-10, 2017, at YMCA Faridabad
Sandeep Srivastava & Pradeep K. Varshney (2016), <b>"X-ray diffraction studies of mixed ion composites of Poly-vinyl Alcohol with Sodium and Lithium perchlorate"</b> paper presented in conference Sustainable Development through

Research in Engineering and Management (SDREM-2016) held on December 26-27, 2016 at YMCA, Faridabad.
Richa Pandey, Rajesh Tripathi, Pradeep K. Varshney (2016), <b>“Comparative analysis of a single slope solar still using nano condensing glass covers”</b> paper presented by one of the author in REDSET-2016, an International Conference highlighting prominence and Recent Developments in Science Engineering and Technology in today’s World held at GD Goenka University, Gurgaon, India on 21-22 October 2016
S. Banga, Pradeep K. Varshney, Naveen Kumar (2016), <b>“Green Technologies for the Refining of Non-edible Oil Based Biodiesel”</b> in 1st International Conference on Bioresource Technology for Bioenergy, Bioproducts & Environmental Sustainability held at Sitges, Spain during 23-26 October 2016.
Sandeep Srivastava, Pradeep K. Varshney (2016), <b>“Mixed Ion Composite Polymer Electrolytes for application in Electrochemical Devices”</b> paper presented by co-author in National Conference on “Role of Science and Technology Towards Make in India, RSTMI-2016 held on 4-5 March 2016.
Shveta Malhotra, Pradeep K. Varshney (2015), <b>“Effect of fillers on Composite Polymer Electrolytes-A Study”</b> paper presented by co-author in 2nd International Conference in Recent Development of Science, Engineering and Technology (REDSET-2015) held at G.D. Goenka University, Gurgaon, Haryana on 30-31 October 2015.
Shveta Malhotra, Pradeep K. Varshney (2015), <b>“Future Prospects of Polymer Electrolytes”</b> paper presented by co-author in National Conference on Recent Innovations in Applied Sciences and Humanities held at Rawal Institute of Engineering & Technology 10 October 2015.
Richa Pandey, Rajesh Tripathi, Pradeep K. Varshney (2015), <b>“Performance analysis of single slope solar still using graphene coated condensing cover”</b> paper published in <b>conference proceedings</b> in 2nd International Conference in Recent Development of Science, Engineering and Technology (REDSET-2015) held at G.D. Goenka University, Gurgaon, Haryana on 30-31 October 2015.
Richa Pandey, Rajesh Tripathi, Pradeep K. Varshney (2014), <b>“Experimental Analysis of Solar Stills using Nano Condensing Glass”</b> paper presented by co-author in 1 <sup>st</sup> International Conference in Recent Development of Science, Engineering and Technology (REDSET-2014) held at G.D. Goenka University, Gurgaon, Haryana on 17-18 October 2014.
Sandeep Srivastava and Pradeep K. Varshney (2012), <b>“Li-Methacrylate based Mixed Ion Composite Polymer Electrolyte for Electrochemical Devices”</b> paper published in Symposium on Nanotechnology: Interdisciplinary Aspects held at YMCA University of Science and Technology, Faridabad 12 <sup>th</sup> December 2012.
Richa Pandey, Rajesh Tripathi and Pradeep K. Varshney (2012), <b>“Experimental Analysis of Conducting Glass Single Slope Solar Still”</b> paper published in Symposium on Nanotechnology: Interdisciplinary Aspects held at YMCA University of Science and Technology, Faridabad from 12 <sup>th</sup> December 2012.
Shikha Gupta and Pradeep K. Varshney (2012), <b>“Gelatin Based Composite Polymer Electrolytes films for Electrochemical Devices”</b> paper published in Symposium on Nanotechnology: Interdisciplinary Aspects held at YMCA University of Science and Technology, Faridabad from 12 <sup>th</sup> December 2012.
Richa Pandey, Rajesh Tripathi and Pradeep K. Varshney (2012), <b>“Thermal Modeling of a Solar Still Using Conducting Glass”</b> paper published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.
Rajiv Kumar Jain Pradeep K. Varshney (2012) <b>“Purification of Biodiesel by Dry Washing using multiple columns of inorganic adsorbents”</b> abstract published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.
Sandeep Srivastava, Shikha Gupta, and Pradeep K. Varshney (2012), <b>“Mixed Ion conducting Composite Polymer Electrolyte films for electrochemical Devices”</b> abstract published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.
Sangita Banga, Pradeep K. Varshney and Naveen Kumar (2012), <b>“Dry purification technique to improve the quality of biodiesel”</b> abstract published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.
Shikha Gupta, Sandeep Srivastava and Pradeep K. Varshney (2012), <b>“Acacia Gum - a natural polymer based electrolyte for Electrochemical Device”</b> poster presented and published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.
Richa Pandey, Rajesh Tripathi and Pradeep K. Varshney (2012), <b>“Thermal Modeling of a Solar Still Using Conducting Glass”</b> abstract published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.

Rajiv Kumar Jain Pradeep K. Varshney (2012) <b>“Purification of Biodiesel by Dry Washing using multiple columns of inorganic adsorbents”</b> published in National Conference on Advances in Solar energy and Material Research, FET MRIIRS, Faridabad held on 3 <sup>rd</sup> March 2012.
Sangita Banga, Pradeep K. Varshney, Naveen Kumar (2012), <b>“Comparison of organic adsorbents for Purification of biodiesel”</b> paper presented and published in International Conference on “Green Chemistry and Chromatographic Sciences” on 12-14 January, 2012 organized by ISAS-Delhi Chapter, IOCL Faridabad in collaboration with MRIIRS, Faridabad. The Best Poster Award with a cash prize of Rs. 2000/- received by one of the Ph.D. student. on 14 Jan 2012.
BhawanaSrivastav&Pradeep K. Varshney (2010), <b>“Chemically Modified Biodiesel Molecule for Fourth Generation Fuel”</b> published in 1 <sup>st</sup> International Conference on New Frontiers in Biofuels held at Delhi Technological University during 18-19 January 2010.
Sangita Banga, Pradeep K. Varshney and Naveen Kumar (2010), <b>“Potential application of dry purification technique to improve the quality of biodiesel”</b> published in 1 <sup>st</sup> International Conference on New Frontiers in Biofuels held at Delhi Technological University during 18-19 January 2010.
Pradeep K. Varshney and B.B. Bansal (2009), <b>“Purification of Bio-diesel using Dry Chemical Process”</b> , published in PETROTECH 2009- 8 <sup>th</sup> International Oil & Gas Conference & Exhibition during 11-15 January 2009.
A. Verma, M. Deepa, P. Varshney, S.A. Agnihotry, A.K. Bakhshi (2002), <b>“Sol-gel derived CeO<sub>2</sub>:TiO<sub>2</sub> Coatings : Preliminary studies”</b> Poster presented in Fifth National Conference on Solid State Ionic held at Nagpur University, Nagpur [15-17 Feb., 2002].
P. Varshney, M. Deepa, S.A. Agnihotry, K.C. Ho (2002), <b>“Photo-polymerized films of Li ion Conducting solid polymer electrolytes for Electrochromic windows (ECWs)”</b> paper presented in Fifth National Conference on Solid State Ionic held at Nagpur University, Nagpur [15-17 Feb., 2002].
P. Varshney, M. Deepa, N. Sharma, , S.A. Agnihotry (2001), <b>“Transmission enhancement in Tin Oxide conductive Coatings for ECWs”</b> , paper presented in International Conference on Solid state Ionics (SSI 2001) held at Cairns, Australia during 8-13 July, 2001.
S.A. Agnihotry, N. Sharma, M. Deepa, P. Varshney (2000), <b>“A novel process for preparing a precursor material for depositing tungsten oxide (WO<sub>3</sub>) based Electrochromic films”</b> , paper presented by one of the author in "National Seminar on Sol-Gel Science and Technology" held at Central Glass and Ceramic Research Institute (CGCRI), Calcutta during 17-18 August, 2000.
P. Varshney, Nidhi Sharma, M. Deepa, S.A. Agnihotry (2000), <b>“Haze Reduction in Tin Oxide Conductive Coatings for Transmissive ECDs”</b> , paper accepted for presentation and to proceedings of Fourth International Meeting on Electrochromics (IME-4) held at Sweden during 21-23, August, 2000.
N. Sharma, M. Deepa, P. Varshney, U.C. Upreti, R. Ramachandran, S.A. Agnihotry (2000), <b>“A Comparative study of Precursor Materials for Casting Sol-gel based Tungsten Oxide Films”</b> paper presented in 4 <sup>th</sup> National Conference on Solid State Ionics held at Bombay, 3-5 March, 2000.
M. Deepa, N. Sharma, P. Varshney, R. Chandra, S. A. Agnihotry (2000), <b>“Pronounced Influence of Solvent Characteristics on <math>\sigma_{RT}</math> of Electrolytes for ECDs”</b> , paper presented in 4 <sup>th</sup> National Conference on Solid State Ionics held at Bombay, 3-5 March, 2000.
P. Varshney, M. Deepa, N. Sharma, S.R. Gupta, B.B. Sharma, S.A. Agnihotry (2000), <b>“Sol-gel derived Tin Oxide Film as a Passive Counter Electrode for Electrochromic Devices (ECDs)”</b> , paper presented in 4 <sup>th</sup> National Conference on Solid State Ionics held at Bombay, 3-5 March, 2000.
S.A. Agnihotry, Nidhi, Pradeep, S.S. Sekhon (1999), <b>“Li<sup>+</sup> conducting gel electrolyte for Electrochromic Windows”</b> paper presented in 12 <sup>th</sup> International Conference on Solid State Ionics held at Greece in June 6-12, 1999.
S.A. Agnihotry, Pradeep, S.S. Sekhon (1998), <b>“PMMA Based Gel Electrolyte For EC Smart Windows”</b> paper presented in 3 <sup>rd</sup> International Meeting on Electrochromics IME-3 held at Imperial College London, England in September 7-9, 1998.
S.S. Sekhon, Pradeep, S.A. Agnihotry (1998), <b>“Fast Ion Conducting Lithium Electrolyte Gelled with PMMA”</b> paper presented in 6 <sup>th</sup> Asian Conference cum Training Workshop on SSI held at Surajkund (Near New Delhi) in Nov., 22-28, 1998.
Deepa, Pradeep, R. Ramachandran, S.A. Agnihotry (1998), <b>“Compositional Aspects &amp; Some Properties of Peroxytungstic Acid For EC Applications”</b> paper presented in 6 <sup>th</sup> Asian Conference cum Training Workshop on SSI held at Surajkund (Near New Delhi) in November 22-28, 1998.

R. Ramachandran, Nidhi, Pradeep K. Varshney & S.A. Agnihotry (1998), " <b>Sol-gel Deposition of EC-WO<sub>3</sub> Films using a Precursor with Enhanced Stability</b> " paper presented in 3 <sup>rd</sup> National Conference on Solid State Ionics held at Itanagar, NERIST from 23-26 March, 1998.
Pradeep K. Varshney, Nidhi, R. Ramachandran & S.A. Agnihotry (1998), " <b>Colloidal Tungstic Oxide Films for Electrochromic Applications: Preliminary Studies</b> " paper presented in 3 <sup>rd</sup> National Conference on Solid State Ionics held at Itanagar, NERIST from 23-26 March, 1998.
A.P.Gupta and Pradeep K. Varshney (1997), " <b>Effect of tetracycline hydrochloride on the ion exchange properties of Zirconium (IV)tungstophosphate</b> " paper presented in 84 <sup>th</sup> Indian National Science Congress Association (INSA) held at Delhi University, Delhi, January 3-7, 1997.
A.P.Gupta and Pradeep K. Varshney (1995) " <b>Studies on Heteropolyacid Derivatives -Zirconium (IV) tungstophosphate: A Lead Selective Cation Exchanger</b> " paper presented in 14 <sup>th</sup> "Indian Council of Chemists" held at The Institute of Science, Bombay, 28-30 Dec., 1995.
A.P.Gupta, Pradeep K. Varshney and Renuka (1995) " <b>Araldite Based Ion Exchange Membrane</b> " proceedings to National Program on Recent Advances on Polymers held at Indore, 1995.
A.P.Gupta, Pradeep K. Varshney and Renuka (1994) " <b>Polymer Membranes in Environmental Management-Agro-based Industries Effluents</b> " proceedings to National Program on Health Management, Nov., 11-13, 1994.
A.P.Gupta, Pradeep K. Varshney and Renuka (1994) " <b>Strategies on Entrepreneurship Development</b> " proceedings to National Program on Entrepreneurship Development, March 4-5, 1994.

#### + Research Papers Reviewed:

Manuscript Number: GSD_2020_326_R1-3, " <b>Efficient biosorption of Zn(II) ions by Schizomerisleibleinii using response surface methodology</b> ", Groundwater for Sustainable Development (2020)
Manuscript Number: IJLEO-D-16-03340, " <b>Preparation and characterization of protonic solid electrolyte applied in a smart window device with high optical modulation</b> ", Optik – International Journal for Light and Electron Optics (December 2016)
" <b>Molecular Dynamics Simulation of Cross linked Epoxy Resins: Curing and Mechanical Properties</b> ", European Polymer Journal (February 2016)
Manuscript Number:EUROPOL-D-15-00999, " <b>Chitosan based Nanocomposites for Biomedical and Pharmaceutical Applications</b> ", European Polymer Journal (October 2015)
Manuscript ID JPF-14-0013 entitled " <b>Fabrication of a membrane based on new Synthesized Copper Schiff base complex and it demonstrate metal ion selective material</b> " for Journal of Plastic Film and Sheeting. (April 2014)
Manuscript ID IONICS-2013-0197 entitled " <b>Behavior of commercial and synthesized polymeric membrane toward FeAl<sub>2</sub>O<sub>4</sub> in photoelectron-dialysis process</b> ", IONICS (May 2013)

#### + Research Supervised(PhD / M.Phil.):

<b>Ph.D.</b>
<b>Sangita Banga</b> on "Purification, Characterization and Testing of Biodiesel samples using Organic Adsorbents" in December 2016 <b>(Completed)</b>
<b>Richa Pandey</b> on "Design and Experimental Analysis of Prototype Solar Still using Nano-condensing glass cover" in December 2017 <b>(Completed)</b>
<b>Shikha Gupta</b> on "Natural Polymer based Electrolytes for Electrochemical Devices" in December 2018 <b>(Completed)</b>
<b>Shveta Malhotra</b> on "Development and Evaluation of Non-enzymatic Glucose Sensor Based on Metal Particle/ Conducting Polymer Composites" in July <b>2018 in collaboration with University of Wisconsin (Completed)</b>
Sandeep Srivastava on "Mixed Ion Polymer based electrolytes for Electrochemical Devices" in November 2019 <b>(Completed)</b>
<b>Deepti Ahuja</b> on "Development of Aluminum Air Battery using Innovative Electrolyte for Environmental Sustainability" <b>(Ongoing-2019 onwards)</b>
<b>Priya Garg</b> on "Energy Storage Batteries-Electrochemical Batteries" <b>(Ongoing-2020 onwards)</b>
<b>M.Phil.</b>

<b>Pradeep Singh Gussain</b> on “Study of Solid Polymer Electrolytes for Electrochemical Devices” in August 2008 <b>(Completed)</b>
<b>Neha Sharma</b> on “Acidic Ionic Liquid Catalysed Synthesis of N-substituted Coumarins” in February 2009 <b>(Completed)</b>
<b>TarunaKataria</b> on “Chemo Selective Acetalization using NH <sub>4</sub> Cl under Microwave Irradiation” in May 2009 <b>(Completed)</b>
<b>Ph.D. thesis reviewed / Viva Voce conducted</b>
Reviewed 05 Ph. D. Thesis of Rohelkhand University during 2006-09.
Conducted Ph.D. Viva-Voce examination for 3 Ph.D. students during 2006-09 at Rohelkhand University

**+ Book/Chapter Publications:**

Article “ <b>Free Radicals-The Cause of All Virtual Diseases</b> ”, Reporter, Manav Rachna Publication House Pvt. Ltd. Volume 2, Issue 10, May 2012, Pradeep K. Varshney

**+ Conferences/ Seminars / Workshop / FDP attended:**

Attended NDLI-UNESCO International Symposium on Knowledge Engineering for Digital Library Design during 9-11 December 2019 at IIT Delhi
Attended India ASEAN InnoTech Summit’—a two-day international conference on 29th-30th November, 2018, at The Lalit Hotel, New Delhi.
Attended Ceremony of inauguration of MIC-IIC, Certificate and launching of ARIIA Ranking on November 21, 2018 at AICTE auditorium, New Delhi
Attended WS Government & Education Leadership Forum 2018 on Wednesday, September 19, 2018 at Leela Palace in Gurugram.
Attended MHRD Innovation Cell launch event on August 30, 2018 at AICTE auditorium, New Delhi.
Attended a “One million Innovator” Launch at The Park Hotel, New Delhi on 08 September 2016.
Attended International Conference on “Reliability, Optimization & Information” Technology sponsored by Department of Science & Technology and DRDO during 6-7 February 2014 held at FET, MRIIRS, Faridabad
Attended National Conference on Recent Trends in Mathematical Modeling and Soft Computing Techniques on 29 March 2014 held at FET, MRIIRS, Faridabad.
Attended Workshop on Program Education Objectives and Program Outcomes on 20 July 2013 at FET, MRIIRS, Faridabad
Attended and Chaired one Technical Session of National Workshop on Geo-Cloud Computing and Cryptology sponsored by Department of Science & Technology and DRDO, New Delhi during 21-22 September 2012 held at FET, MRIIRS, Faridabad
Attended One day Seminar on Higgs Boson-The Elusive, Fabled and Revered Particle (God Particle) on 21st August 2012 at Faculty of Engineering & Technology, MRIIRS organized by Student Chapter of Indian Society for Technical Education (ISTE).
Attended Faculty Development Workshop on Teacher Effectiveness Enhancement Program (TEEP) held on 17 August 2012 at Faculty of Engineering & Technology, MRIIRS organized by Rawel. Educare Pvt. Ltd. and Global Excellence Systems, Canada on 17/07/2012.
Attended and Chaired two Technical Sessions of National Workshop on Geo-spatial Technologies & Applications sponsored by Department of Science & Technology and DRDO, New Delhi during 30-31 May 2012 held at FET, MRIIRS, Faridabad
Attended International Conference on “Green Chemistry and Chromatographic Sciences” on 12-14, January 2012 organized by ISAS-Delhi Chapter, IOCL Faridabad in collaboration with MRIIRS, Faridabad.
Attended a Seminar on “Role of IP in Technology Development & Transfer” Inspire Hall, Hotel Le Meridien, New Delhi on 15 Feb. 2010 organized by CII.
Attended Nanotechnology Conclave 2009 at Taj Palace, New Delhi on 15 April 2009 organized by CII.
Attended Indo-US (IUCCE) Meeting at Ansal Institute of Technology (AIT), Gurgaon on 13 October, 2008.

Attended <b>INDO-US COLLABORATION FOR ENGINEERING EDUCATION (IUCEE) Workshop on “Effective Teaching &amp; Learning”</b> at Global Education Centre, Infosys Technologies Ltd. Mysore during 26-28 May, 2008.
Attended Workshop on “Real Time PCR” at JamiaHamdard University during 26 Dec., 2007.
Attended two days training program on “ <b>Beyond Leadership</b> ” at CITM, Faridabad during December 2007.
National Seminar on “Emerging Technologies in the field of Electronics, Telecommunications and Control Systems” held at CITM, Faridabad on 31 <sup>st</sup> March, 2007.
Attended <b>18<sup>th</sup> Meeting on Materials Research Society of India (MRSI)</b> at National Physical Laboratory, N. Delhi during <b>12-14 Feb, 2007</b> .
Attended <b>Workshop on Production &amp; Utilization of Biodiesel</b> at APJ college of Engineering, Sohna on <b>9 Jan, 2007</b> .
Attended <b>Seminar cum Exhibition on Resource Saving Chemical Technologies at Russian Center of Science &amp; Culture</b> on 24 <sup>th</sup> November, 2005.
Attended <b>11<sup>th</sup> Technology Indo-Canadian Summit</b> at Taj Palace during 21-22 September, 2005.
Attended <b>International Conference on Physics Education</b> at VigyanBhawan, New Delhi on 26, August, 2005.
Attended <b>Faculty Excellence Meet</b> at Delhi–2003 during 17 <sup>th</sup> Dec., 03 to 24 <sup>th</sup> Dec., 03.
Attended <b>Faculty Meet</b> at Bhimtal –SYNERGY-2002 during 29 <sup>th</sup> Nov., 02 to 2 <sup>nd</sup> Dec, 02.
5 <sup>th</sup> National Conference on <b>Solid State Ionics</b> [15-17, February, 2002] at Nagpur University, Nagpur
4 <sup>th</sup> National Conference on <b>Solid State Ionics</b> [3-5, March, 2000] at IIT, Bombay.
6 <sup>th</sup> Asian conference on <b>Solid State Ionics</b> [Nov., 29 - Dec., 4, 1998] at SurajKund, New Delhi.
3 <sup>rd</sup> National Conference on <b>Solid State Ionics</b> [23 –26 March, 1998] at Itanagar, NERIST, Arunachal Pradesh.
National Program on <b>Electrochemical Energy Conservation &amp; Storage Batteries</b> [28-29 March, 1997] at Delhi College of Engineering, Delhi.
National Program on <b>Recent Advances in Ion Exchange Polymers &amp; Membrane Technology</b> [7-8 Feb., 1997] at Delhi College of Engineering, Delhi.
84 <sup>th</sup> Conference of <b>Indian Science Congress Association (ISCA)</b> [3-8 Jan.,1997] at Delhi University, Delhi.
<b>Refresher Course on Electro-Chemical Science &amp; Technology</b> [15-20 Jan., 1996] at Delhi College of Engineering, Delhi.
14 <sup>th</sup> Conference of <b>Indian Council of Chemists (ICC)</b> [28-30 Dec.,1995] at Indian Institute of Science, Bombay.
<b>Refresher Course on Environmental Science &amp; Technology</b> [12-30 Dec., 1995] at Delhi College of Engineering, Delhi.
National Program on <b>Entrepreneurship &amp; Technology Development – Role of Industries, R&amp;D Organizations and Academic Institutions</b> [4-5 March, 1994] at Delhi College of Engineering, Delhi.
National Program on <b>Management of Environment</b> [11-14 Feb, 1994] at Delhi College of Engineering, Delhi.
Attended NDLI-UNESCO International Symposium on Knowledge Engineering for Digital Library Design during 9-11 December 2019 at IIT Delhi
Attended India ASEAN InnoTech Summit’—a two-day international conference on 29th-30th November, 2018, at The Lalit Hotel, New Delhi.
Attended Atal Tinkering Labs (ATLs) innovation lab setup meeting on 6 April 2017 at Room No. 122, NITI Aayog, New Delhi
Attended National Seminar on Role of Groundwater in Smart Cities & Villages on 17.12.2016 and A-Block Auditorium, MRIIRS, Faridabad
Attended Workshop on NBA Accreditation for preparation of NBA-SAR on 28 <sup>th</sup> September 2016 at MRIIRS, Faridabad.
Attended Workshop on NBA Accreditation for preparation of NBA-SAR on 27 <sup>th</sup> August 2016 at MRIIRS, Faridabad.
Attended 3 <sup>rd</sup> World Summit on Accreditation (WOSA-2016) from 18 to 20 March 2016 at The Leela Ambience Gurgaon organized by NBA, New Delhi.
Attended Workshop on Program Education Objectives and Program Outcomes on 20 July 2013 at FET, MRIIRS, Faridabad
Attended Faculty Development Workshop on Teacher Effectiveness Enhancement Program (TEEP) held on 17 August 2012 at Faculty of Engineering & Technology, MRIIRS organized by Rawel. Educare Pvt. Ltd. and Global Excellence Systems, Canada on 17/07/2012.
Attended Indo-US (IUCEE) Meeting at Ansal Institute of Technology (AIT), Gurgaon on 13 October, 2008.
Attended <b>INDO-US COLLABORATION FOR ENGINEERING EDUCATION (IUCEE) Workshop on “Effective Teaching &amp;</b>



Learning” at Global Education Centre, Infosys Technologies Ltd. Mysore during 26-28 May, 2008.  
 Attended Workshop on “Real Time PCR” at JamiaHamdard University during 26 Dec., 2007.  
 Attended two days training program on “Beyond Leadership” at CITM, Faridabad during December 2007.

**+ Administrative Responsibilities:**

**Dean Research and Dean Faculty of Applied Sciences**, Manav Rachna University, Faridabad w.e.f. 1.3.2019 and 1.5.2019 respectively

**Director**, Manav Rachna Research, Innovation & Incubation Centre (MRIIC) and Professor in Chemistry (Since 2006), Faculty of Engineering & Technology, Manav Rachna International Institute of Research & Studies (erstwhile MRIU, Faridabad) upto 28.2.2019

**Associate Director** and Professor from 15 October 2010 to 30.11.2016, Faculty of Engineering & Technology, Manav Rachna International University Faridabad

**Head Applied Sciences & Humanities**, Professor in Chemistry and Coordinator R&D Cell from 1 July 2008 to 14 October 2010, CITM Faridabad / Faculty of Engineering & Technology, Manav Rachna International University Faridabad

**In-charge- Applied Sciences & Humanities**, Professor in Chemistry and Coordinator R&D Cell from 1 August 2006 to 30 June 2008 at CITM, Faridabad

**In-charge Chemistry Section** and Assistant Professor from 4 June 2005 to 31<sup>st</sup> July 2006 at CITM, Faridabad

**Coordinator** for Biotechnology, Associate Professor, Senior Lecturer and Internal Verifier for Higher National Diploma, HND (Edexcel UK) from 5 April 2002 to 4 June, 2005 at School of Engineering & Applied Sciences, New Delhi

**Research Associate (RA)** CSIR from 1 Aug. 2001 to 5 April 2002 at National Physical Laboratory, New Delhi

**Post-Doctoral Fellow (PDF)** in December 2001 at LG-Elite Company, South Korea

**Post-Doctoral Fellow (PDF)** from 1 Aug. 2000 to 31 July 2001 at National Taiwan University, Taipei

**Research Associate (RA)** DST Project from 1 April 1999 to 31 July 2000 at National Physical Laboratory, New Delhi

**Other Responsibilities**

**Ambassador to AICTE—Ministry of Innovation Cell (MHRD)** for Implementation of National Innovation and Startup Policy (NISP) 2019

**President, Institute Innovation Council (IIC)** of MRIIRS established by MIC-ACITE (2018-19)

**University Coordinator**, Atal Rankings of Institutions on Innovation Achievements (ARIIA)-2018-19

**SPOC of MRIIRS** for Smart India Hackathon-2018-19

BOS Member of Chemistry Department, Applied Sciences, MRU while working with MRIIRS

Plagiarism Disciplinary Committee, Expert Member, MRU while working with MRIIRS

Worked as member of various Committees of MRIIRS like NACC, Board of Faculty (BOF), Academic Council, Research Promotion Committee, University Migration Committee, University Students Welfare Committee, University Planning & Monitoring Board, University Faculty Development Cell, Standing University Planning Committee, University Skill Development Committee, Chairman, Seat Allotment Committee, Admissions (2009-2014), FET, Chairman, Branch Change Committee, Admission Coordinator etc.

Lab Development: Established AICTE sponsored R&D lab at CITM, Chemistry lab, Biochemistry lab at Delhi College of Engineering and School of Engineering & Applied Sciences, New Delhi respectively.

Chief Superintendent of Examination, FET, MRIIRS (4 Semesters)

**+ Professional Affiliation:**

Life Member of Indian Society of Analytical Scientists (ISAS) -Delhi Chapter

Member of National Foundation of Indian Engineers (NAFEN)

Member of Indian National Science Congress Association (INSA)

Member of Indian Council of Chemists (ICC)

Member of Asian J. of Chemistry (AJC)

Member of Institutional Ethical Committee, Manav Rachna Dental College (MRDC) Faridabad

Member of Ministry of Labour Institute for screening VishwakarmaRastriyaPuraskar 2017, 2018 and 2019
Advisory Board Member of International Conference IECSTM-2020 of MAA SHAKUMBARI TRUST.
Jury Member of Anveshan-2019, National Student Research Convention organized by Association of Indian Universities (AIU) hosted by Ganpat University Gujrat during 12-14 March 2019
External examiner for M.Tech. at Delhi Technological University on 13.9.2012.
External examiner for appointed by YMCA University of Science & Technology for B.Tech students in 07.05.2018
External Examiner for Madurai Kamraj University to conduct M. Phil. Viva-Voce examination for MKU students at NIAM, New Delhi during 1-3 March 2008.
External examiner for paper setting for YMCA University of Science & Technology for M.Sc. students

#### + Expert Talk Delivered / Technical Session Chaired:

<b>Expert Talk Delivered</b>
Invited talk delivered online on <b>“Future Prospects and Entrepreneurship options in Mechanical Engineering”</b> on 19.11.2020 organized by Mewat Engineering College, Nuh
Invited talk delivered on <b>“Technology Assistance from R&amp;D Labs and Other Institutions”</b> in DST-NIMAT sponsored Faculty Development Programme organized by New-Gen Innovation & Entrepreneurship Development Centre, Manav Rachna International Institute of Research & Studies, Faridabad from 5 <sup>th</sup> – 17 <sup>th</sup> October 2020
Invited to deliver a talk on <b>“Ecosystem of digital Economy”</b> at Russian Centre of Science & Culture, New Delhi during 13-14 November 2019
Invited talk delivered on <b>“Electrochemical Green Batteries”</b> on 19.04.2017 in National Conference on ‘Recent Trends in Engineering Science & Management’ (NCRTESM-2017) held at Shri Ram College of Engineering & Management.
Extension lecture delivered on <b>“Green Chemistry-Our Future”</b> to M.Sc. and B.Sc. students of “K. L. Mehta Dayanand College for Women” Faridabad on 30.09.2016.
Invited as a Resource person to deliver a talk on <b>“Invisible Mobile Radiations Effect on Human Health”</b> at DAV Centenary College, Faridabad on 26 <sup>th</sup> October 2015.
Invited as a Resource person to deliver <b>Key Note address</b> in <b>National Seminar on Science &amp; Technology</b> on 2 <sup>nd</sup> March 2015 at DAV Centenary College, Faridabad
Delivered a talk on <b>“Go Green” on Environmental Day 5 June 2012</b> organized by The Institutions of Engineers at Manav Rachna International University, Faridabad.
Delivered a talk on <b>“Effective classroom teaching”</b> in teaching learning methodology faculty development workshop on 13 Oct. 2010.
Delivered a talk on <b>“Mobile Phones may damage our Health”</b> at Career Institute of Technology, Faridabad on 3 June, 2006.
Delivered a talk on <b>“ACTIVE CLASSROOM TEACHING”</b> in “Workshop on Effective Classroom Teaching” organized by ASH department, CITM, Faridabad on 9 Dec.,2008.
<b>Technical Session Chaired</b>
Chaired Technical Session on 10.01.2019 in International Conference on ‘Green Initiatives in Science & Technology’ organized by Chemistry Department, Manav Rachna University in association with Green Centre of Excellence, University of York, UK, Royal Society of Chemistry, London North Section and Indian Oil Corporation Ltd., R&D Centre Faridabad
Invited as a resource person by NewGen IEDC, Manav Rachna, MRIIRS to deliver a talk during Two Week Faculty Development Programme on Entrepreneurship sponsored by DST-NIMAT Scheme on 3 <sup>rd</sup> December 2018
Invited as a resource person and panelist by National Science & Technology Consortium (NSTC) hosted by STM for the session entitled <b>“Nanotechnology Innovation for the Industry”</b> Conferences <b>28<sup>th</sup> November *2018, Crowne Plaza, MayurVihar, New Delhi</b>
Invited as a resource person by NewGen IEDC, Manav Rachna, MRIIRS to deliver a talk during Entrepreneurship Awareness Camp under DST-NIMAT Scheme on 27 <sup>th</sup> September 2018
Invited as a resource person by <b>Central University Haryana</b> to deliver a talk on <b>“Students Support Services”</b> in <b>Higher Education Leadership Programme (HELP) of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)</b> on 7 <sup>th</sup> December 2017.

Chaired Technical Session on 19.04.2017 in National Conference on 'Recent Trends in Engineering Science & Management' (NCRTESM-2017) held at Shri Ram College of Engineering & Management.

**Co-Chaired Technical session** in Workshop on Chemistry for Tomorrow's World sponsored by Royal Society of Chemistry, London and organized by Green Chemistry Network Centre, Delhi University, Manav Rachna University, Faridabad and ShivNadar University, Greater Noida on 2-3 December 2015 at Maiden Hotel, Delhi.

Chaired one Technical Session of **International Conference on "Reliability, Optimization & Information"** Technology sponsored by **Department of Science & Technology and DRDO** during 6-7 February 2014 held at FET, MRIIRS, Faridabad

**Chaired Technical session** in Short Term Training Programme on **"Enhancing Awareness & Teaching Skills"** sponsored by **ISTE (AICTE)** on 20 March, 2007 at CITM, Faridabad.

Chaired two Technical Sessions of **National Workshop on Geo-spatial Technologies & Applications** sponsored by **Department of Science & Technology and DRDO**, New Delhi during 30-31 May 2012 held at FET, MRIIRS, Faridabad

#### + Event Organized(Conference/Seminar/FDP/Workshops):

**Convener of YASH-2020** (Youth Activities for Superior Humanity)organized jointly by Manav Rachna University and Foundation of Glocal Science Initiatives (FGSI) from 16<sup>th</sup> January to 19<sup>th</sup> January 2020. (05 Countries participated)

**Convener** of DST Meeting organized by MES-2019 on 20-21 December 2018 (Grant Received worth Rs. 11 Lacs)

**Organizing member of Green & Sustainable Chemistry Conference (GSCC 2019)** sponsored by SERB-DST, IOCL, Faridabad, DRDO, New Delhi and Royal Society of Chemistry, London UK organized by Department of Chemistry, Manav Rachna University Faridabad during 7-8 2019.

**Convener of IEYI-2018** (International Exhibition for Young Inventors)hosted by MRIIRS in the campus and Hotel Taj Vivanta in collaboration with FGSI (Foundation for Glocal Science Initiatives) during 17-21 October 2018.(09 Countries participated)

**Coordinator Anveshan-2018 (North Zone)** organized at Manav Rachna Campus on 26-27 Feb., 2018 funded by **Association of Indian Universities (AIU)**.

**Convener of Workshop organized on 2<sup>nd</sup> July 2016** for all HODs, Deans and other Senior Functionaries of the Universities and Management in collaboration with**Accendere Knowledge Management Services Pvt. Ltd, a CL Educate Group and also launched Research Incubator in the Campus.**

**Convener of 2<sup>nd</sup> workshop on "Environmental Protection and Green Technology (EPGT)"** organized on 26<sup>th</sup> March 2015 under the banner of "Green Chemistry Club", Department of Chemistry, Faculty of Engineering & Technology, Manav Rachna International University, Faridabad.

**Convener of National Conference on "Recent Trends in Mathematical Modeling and Soft Computing Techniques" on 29<sup>th</sup> March, 2014 at Faculty of Engineering & Technology, MRIIRS, Faridabad.**

**Convener of 1<sup>st</sup> Workshop on "Environmental Protection and Green Technology (EPGT)"**organized on 26<sup>th</sup> March 2014 under the banner of "Green Chemistry Club", Department of Chemistry, Faculty of Engineering & Technology, Manav Rachna International University, Faridabad.

**Convener of National Conference sponsored by Ministry of New & Renewable Energy (MNRE) on "Advances in Solar energy and Material Research" on 3<sup>rd</sup> March 2012 at Faculty of Engineering & Technology, MRIIRS, Faridabad.**

#### + Patent (Granted / Published / Filed):

##### Granted

A PROCESS FOR THE PREPARATION OF HIGHLY STABLE SOLID PRECURSOR MATERIAL USEFUL FOR TUNGSTEN OXIDE BASED ELECTROCHROMIC COATINGS.

S.A. Agnihotry, R. Ramachandran, **Pradeep K. Varshney**, N. Sharma, M. Deepa,

**UK Patent Application (19) GB (11) 2359 304 (13) A,**

**Document Cited US 5252354 A**

A PROCESS FOR THE PREPARATION OF HIGHLY STABLE SOLID PRECURSOR MATERIAL USEFUL FOR TUNGSTEN OXIDE BASED ELECTROCHROMIC COATINGS.

S.A. Agnihotry, R. Ramachandran, **Pradeep K. Varshney**, N. Sharma, M. Deepa

(Granted Application No. 217842, Pub. Date 25/04/2008)

**Published**

Fabrication of Non-Enzymatic Sensor Based on Non-Enzymatic Sensor Based on Pt/PVF Modified Pt. Electrode for Determination of Glucose

**(Published Patent in 2019 -U.S. Provisional Application No. 62/630,464 which was filed in February 2018, 62/634,295 and PCT filing on 14 Feb., 2019)**

**Filed**

Productive Solar Cell

**Pradeep K. Varshney** and Rajesh Tripathi (Filing Date 30.01.2017/ Application No. 201711003273)

**+ Awards**

Received an award from National Physical Laboratory, New Delhi on **“TECHNOLOGY DAY”** for the **grant of PATENT from UK.** (2004)

**Government Funded Research Projects Completed / Ongoing / Submitted**

AICTE sponsored project entitled “Design and Development of a Column for Bio-diesel Purification” **completed in 2012(Grant received Rs. 7.5 lacs)**

AICTE sponsored project entitled “Development of Composite Polymer Electrolyte films for Electro-chemical Devices” **completed in 2012(Grant received Rs. 7.5 lacs)**

**Project submitted**

Development of antimicrobial coatings using green synthesized nanoparticles for plummeting the effect of pathogens, Reference No. : 182021011817 (CRG/2021/008151) Dr. Pradeep K. Varshney / Dr. A Jay Mani Chemistry **(Rs. 33.44 lacs)** Date of submission-17<sup>th</sup> March 2021

Industrial Tour on Science Technology For Young Innovators, Dr. Pradeep K. Varshney / Er. Anuj Sinha, FGSI **(Rs. 15.21 lacs)**

Atal Community Innovation Centre setup at Manav Rachna University Campus byDr. Pradeep K. Varshney **(Rs. 250 lacs)**

**MOOC courses Designed**

**NIL**

**+ Any other**

**Mentoring a startup to developNano Material based Portable water based treatment in the name of “JanNeer”** (Water for Commons) by Dr. Sudeep Shukla sponsored by Manav Rachna NewGen IEDC scheme 2019-20 worth **Rs. 2.5 Lacs.**