

**NAME:** Dr. Amer S. Singha

**Designation:** Professor (Chemistry Department)

Dean FW (Faculty welfare), Founder Chemical Engg. Department



**Academic Qualification:**

Sl.No.	Degree	Institute/University
1.	B. Sc.	H. P. University, Shimla
1	M.Sc. & M. Phil	H. P. University, Shimla
3.	PhD	H. P. University, Shimla

**Area of Specialization:** Synthetic Organic Chemistry, Polymeric Chemistry, Materials Science.

**Contact Information:**

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**Name** : Dr. Amer S. Singha

**Present Position** : **Professor & Dean FW (Faculty Welfare).**  
Department of Chemistry  
Founder, Chemical Engineering Département.

**Address for correspondence:** Professor ( Chemistry) Department of Chemistry  
NIT, Hamirpur (HP)-177005.

**Professional Experience** : Working at NIT since its inception in 1986, Founder faculty of this Institute.

➤ **Title of Ph.D Thesis:**

*“A Study of Some Reactions of N-Acyl-O-Alkyl Hydroxylamines”*

➤ **Awards Received:**

Sr. No.	Award Received	Year
1.	Best Poster paper Award (Runners up) –APST-2010 organised by Chemistry Department , NIT Hamirpur ( H.P.) ,October 22-24,2010	2010
2.	Best research paper award – National conference on Mechanism Science and technology – organized by Department of Mechanical Engineering ,NIT Hamirpur ( H.P.), November 13-14,2008	2008
3.	Best Poster paper Award (Runners up) –RAIM 2008 organised by Applied Sciences and Hum. Department NIT Hamirpur ( H.P.) ,February 16-17,2008	2008
4.	Decorated with an award “Striving for Excellence Analytical Sciences through Knowledge Sharing”, by Indian Society for Analytical Scientists (ISAS), New Delhi-Chapter, 2004	2004
5.	Gold Medal in Certificate course in German Language	<b>1980</b>

➤ **Research cum Teaching Experience** : 36 Years

➤ **Details of Research/Teaching Experience:**

Sr. No.	Institute Served	Period		Post held
		From	To	
1.	NIT, Hamirpur (H.P.)	Oct 1998	Till date	Professor
2.	NIT, Hamirpur (H.P.)	Feb 1990	Oct 1998	Asstt. Professor
3.	NIT, Hamirpur (H.P.)	May, 1986	Feb 1990	Lecturer
4.	D.A.V.College,Kangra	July, 1983	May,1986	Lecturer
5.	H. P. University, Shimla	April,1983	July,1983	Post Doctoral Fellow
6.	D.A.V. College,Kangra	July, 1982	March, 1983	Lecturer
7	H. P. University, Shimla	July, 1978	July, 1982	Research Fellow

➤ **Fellowships availed:**

- (I) JRF, UGC, New Delhi
- (II) JRF, H. P. University, Shimla
- (III) JRF, CSIR, New Delhi
- (IV) SRF, CSIR, New Delhi
- (V) SRF/ PDF, May & Baker Ltd., London (UK)

➤ **Research Publications (328)**

<b>International Journals</b>	<b>:</b>	<b>155</b>
<b>International Conferences</b>	<b>:</b>	<b>87</b>
<b>National Conferences</b>	<b>:</b>	<b>86</b>
<b>Papers Communicated</b>	<b>:</b>	<b>12</b>

➤ **Conferences /Short term course/work-shops attended:**

<b>International Conferences Attended</b>	<b>:</b>	<b>29</b>
<b>National Conferences/Work Shops</b>	<b>:</b>	<b>33</b>
<b>Short-term Courses Attended</b>	<b>:</b>	<b>03</b>
<b>STP/Conferences/Work Shops Organized</b>	<b>:</b>	<b>28</b>
<b>Research Projects Handled</b>	<b>:</b>	<b>05</b>
<b>Expert Lectures delivered</b>	<b>:</b>	<b>45</b>
<b>M.Phil Students guided /assisted</b>	<b>:</b>	<b>03</b>
<b>Ph.D Students guided</b>	<b>:</b>	<b>11</b>
<b>Ph. D PersuingStudents</b>	<b>:</b>	<b>-</b>

➤ **Abroad Visits:**

Netherland, Switzerland, Italy, Germany, France, Belgium, Jordan, Hong Kong, China, Malaysia, Australia, South Africa, New Zealand and Thailand.

➤ **Books/ Chapter Published/Monograph** : 19

➤ **Sessions Chaired** : 27

➤ **INSA-ASCR Scientist Exchange Programme** :

Co-ordinated the visit of Senior Scientists: Dr. J.Halova from Institute of Inorganic Chemistry, Dr. Premzyl Zak Institute of Computer Sciences and Ms Pavlina Samkova, Academy of Sciences from Czech Republic Prague under INSA- ASCR Scientists exchange program at NIT, Hamirpur w.e.f. January, 22, 1999 to Feb.,16, 1999.

➤ **Curriculum Developpement:**

- 1) Member BOS, H.P.Univeersity,Shimla.
- 2) Member FOET, H.P.Univeersity, Shimla
- 3) Member BOS, NIT, Hamirpur
- 4) Member Academic Council, NIT, Hamirpur
- 5) Co-ordinator, Curriculum Development
- 6) Dean Academic and IP, NIT.Hamirpur
- 7) Nodal Officer Academic TEQIP
- 8) Member Senate, NIT Hamirpur
- 9) Member BOS, H.P. Technical University
- 10) Member Board of Management, Indus International University, Bathu, Una (H.P.)
- 11) Member board of Management Career Point University,Hamirpur (H.P.)
- 12) Member Finance Committee, CPU, Hamirpur, H.P.
- 13) Member Senate, NIT Calicut, Kerala
- 14) Interim Registrar , IIIT Una, HP
- 15) Convenor DPGC , Chemistry Department

➤ **Extra Curricular activities:**

- 1) Member Academic Council, H.P.University, Shimla
- 2) Member Admission Committee
- 3) Editor, Institute Magazine
- 4) Secretary, Sports
- 5) President, Sports
- 6) Co-ordinator Examinations
- 7) Chairman purchase committee ( TEQIP )
- 8) President, NIT., Clubs
- 9) Chief -Warden (HOSTELS)
- 10) Counselors IGNOU
- 11) OIC Convocation-2005
- 12) OIC Applied Chemistry Laboratory
- 13) Chairman, Admission Committee
- 14) Member, Board of Governors, NIT Society( 2001-02 )
- 15) Dean IRD &C,NIT Hamirpur
- 16) Dean Planning and Development (P&D)
- 17) Nodal Officer (Construction)
- 18) Chairman Institute Purchase Committee
- 19) Member Steering Committee (TIFAC CORE)
- 20) Member RMC (TIFAC CORE)
- 21) Member Secretary, Building Works Committee , NIT Hamirpur
- 22) Secretary, Senate, NIT Hamirpur
- 23) Secretary, BOG, NIT, Hamirpur
- 24) Member BOS HP Technical University, Hamirpur

➤ **Membership of Professional Bodies:**

- 1) Fellow Indian Chemical Society (LM-F/2726)
- 2) Life- member ISTE (5767)
- 3) ISAS (LM- 1096)
- 4) Fellow of Society for Chemistry & Environment

➤ **Administrative Experience:**

- 1) **Founder Head, Chemical Engineering Department, NIT Hamirpur since May,2013 till April 29,2016**
- 2) **Registrar, NIT Hamirpur, 22/11/10 to 15/03/2016**
- 3) **PIO NIT Hamirpur Nov 2010- September, 14**
- 4) **Coordinator, TEQIP –II Jan2013 – October,2013**
- 5) **Registrar, NIT Hamirpur Jan 21, 2009–Jan 28, 2010**
- 6) **Founder Head, Chemistry Department w.e.f.August 01,2009-Aug 31, 2012**
- 7) **Head, Advanced Material Science Centre August,2009 toOctober,2009**
- 8) **Dean P&D,June 2007–June 2009**
- 9) **Chairman purchase committee TEQIP-I, 2005-2009**
- 10) **Dean IRD&C April 26, 2007 to June25, 2007**
- 11) **Dean Academics &International Programming  
Nov- 2002 to June- 2007**
- 12) **HOD, Applied Sci. Sep 03, 2002-February 03, 2006**
- 13) **Chairman Admission Committee1998-2002**
- 14) **Chief -Warden (Hostels) 02 Years (1996-98)**
- 15) **HOD, Applied Sciences w.e.f. November, 1996 to October, 1998**
- 16) **Appellate Authority ( RTI ), September 2014 –till date**
- 17) **Head, Chemical Engineering Department w.e.f. June 2013 onwards**
- 18) **Dean Faculty Welfare w.ef. April 26,2016**

➤ **Referee for reviewing Journals:**

- 1) Journal of Applied Polymer Science
- 2) Polymer Composites
- 3) Bulletin Material Science
- 4) Int. Journal of Chemical Sciences
- 5) Polymer and Polymer Composites
- 6) eXPRESS Polymer Letters
- 7) Polymer Bulletin

- 8) Journal of Polymer Research
- 9) Polymer Plastic Technology and Engineering
- 10) J. Polymer engineering and Science
- 11) Journal of Polymer Materials
- 12) Fibers and Polymers
- 13) Material and Design
- 14) Iranian Polymer Journal
- 15) Royal society Chem. Comm. ( UK )
- 16) International journal of polymer analysis and characterization

➤ **Membership of Editorial Board :**

- 1) International Journal of Polymer Analysis and Characterization  
Published by Taylor and Francis
- 2) ISST journal of Applied Chemistry ( IJAC )
- 3) Journal Bio Resources ( USA )
- 4) Material Science

➤ **Others :-**

- 1) Honorary Member, the Research Board of Advisors, the American Bio-graphical Institute USA.
- 2) Member of NIT Delegation to UTS, Sydney Australia April 07-14, 2007.

The above statement is correct and true to the best of my knowledge and belief.

**PUBLICATIONS details in Journals:**

Year	No.	Authors: "Title of the Research Paper". "Name of the Journal"(Country), Vol. No., Page Nos.
2015	1.	Ashvinder K Rana and <b>A.S.Singha</b> , " Dielectric, Flammability and Physico-Chemical Properties of Surface Functionalized <i>Cannabis Indica</i> Fibers Reinforced Composite Materials " <i>Polymer Science</i> , Ser. A, <b>57(2)</b> , 220-231, <b>2015</b>
	2.	<b>A.S.Singha</b> , Bhanu Priya and Deepak Pathania, " Corn starch/Poly(vinyl alcohol ) Biocomposite Blend Films: Mechanical Properties, Thermal Behaviour, Fire Retardancy and Antibacterial Activity, <i>International Journal of Polymer Analysis and Characterisation</i> , <b>20</b> , 357-366, <b>2015</b>
	3.	<b>A.S.Singha</b> and Ashish K Guleria, " Mechanical, Thermal, Morphological and Biodegradable Studies of Okra Fiber Reinforced Starch-based Biocomposites" <i>Advances in Polymer Technology</i> , ( accepted )

4. Bhanu Priya , **A.S.Singha** and Deepak Pathania, Synthesis and Kinetics of Ascorbic Acid Initiated Graft Copolymerised Delignified Cellulosic Fiber, *Polymer Engineering and Science*, 2014
5. **A.S.Singha**, D. Pathania and Bhanu Priya, “ Ascorbic Acid/H<sub>2</sub>O<sub>2</sub> Initiated Free Radical Graft Copolymerisation of Delignified Grewia Optiva Cellulosic Fiber” *Malaysian Polymer Journal* ,**10** (1),01-08, **2015**
6. **A.S.Singha** and Ashish Guleria, “Utility of chemically Modified Agricultural waste Okra Biomass for Removal of Toxic Metal ions from Aqueous Solution” , *Journal, Engineering in agriculture, Environment and Food*, (available on line )
7. **A.S.Singha** and Ashish Guleria, “ Use of Low Cost Cellulosic Biopolymer Based Adsorbent for the Removal of Toxic Metal Ions from Aqueous Solution ” *Journal of Separation Science and Technology*, **49** , 01-11, **2014**
8. **A.S.Singha** and ashish Guleria, “ Synthesis and applications of Functional Polymers from Natural Okra Fibers for Removal of Cu(II) ions from Aqueous Solution” *Journal of Natural Fibers*, **12**(6), 587-603, **2015**
9. **A.S.Singha** and Himanshu Kapoor “Evaluation of Physico-chemical Properties of Modified Silk Fiber ” *Journal of Natural Fibers* , **12**(6), 604-616, **2015**

2014

10. V.K.Thakur, **A.S. Singha** and M.K.Thakur, “[Pressure Induced Synthesis of EA Grafted Saccharum Ciliare Fibers](#) ”, *International Journal of Polymeric materials and Polymer Biomaterials*, **63** (1) , 17-22, **2014**
11. KM Govindaraju, A.S.Singha , R.K Jarial , “ Electrochemical and surface investigation of poly( ( N- methyloxymethyl ) benzotriazole-co-phenoxyethyl methacrylate ) coatings ”, *International Journal of Advanced Science and Engineering*, **1**(1) , 06-14, **2014**
12. **A.S.Singha** and Ashish Guleria , “ Application of Vinyl Monomers Functionalised cellulosic Biopolymers for Removal of Dissolved toxic Metal Ions from Polluted Water samples ”, *Journal of Environmental Chemical Engineering* , **2** (3) ,1456-1466, **2014**
13. **A.S.Singha**, Ashish Guleria and Raj K Rana, “ Microwave Assisted Graft Copolymerisation of Cellulosic Fibers for Removal of Heavy metal Ions from Aqueous Solution, *International Journal of Polymer analysis and Characterisation*,**19** ( 4) , 318-331, **2014**
14. **A.S.Singha** and Ashish K Guleria, “ Chemical Modification of Cellulosic Biopolymer and its use in the removal of Heavy Metal Ions from wastewater” *International Journal of Biological Macromolecules* , **67**,409-17, **2014**
15. Bhanu Priya, Vinod K Gupta, Deepak Pathania and **A.S.Singha**, “ Synthesis , characterization and antibacterial activity of biodegradable starch/PVA composite films reinforced with cellulosic fibre ” , *Carbohydrate Polymers*, **109**, 171-179, **2014**
16. Ashvinder K Rana, and **A.S.Singha** “ Studies on Performance of Polyester Composites Reinforced With Functionalised *Grewia optiva* Short Fibers” *Advances in Polymer Technology*, **33** (4) ,01-11, 2014
17. **A.S.Singha**, Bhanu Priya Thakur and Deepak Pathania, “ Analysis and Characterisation of Microwave Irradiation Induced Graft Copolymerisation of Methyl Methacrylate onto Delignified Grewia Optiva Fiber ” , *International Journal of Polymer Analysis and Characterisation* , **19**(2),115-123,**2014**.



18. **A.S.Singha** and Himanshu Kapoor, “ Effect of Silk Fibroin Reinforcement on Properties of Potato Starch Poly Vinyl Alcohol Blends Film, ” International Journal of Polymer Analysis and Characterisation,**19(3)**,212-221, **2014**
19. **A.S.Singha** and Ashish Gularia, “[Functionalized cellulosic fibers for removal of toxic metal ions from contaminated water](#)”, International Journal of Polymer Analysis and Characterisation, 19 (1 ), 10-21, **2014**
20. A.K.Rana, A.S.Singha, M.K.Thakur and Vijay Kumar Thakur “ Effect of Chemical Functionalization on Functional Properties of Cellulosic Fibers Reinforced Polymer Composites” In the book “ Lignocellulosic Polymer Composites: Processing, Characterization and Properties “ ISBN:978-1-118-77357-4;2014 John Wiley & Sons, Inc.USA
21. A.K.rana, A.S.Singha, M.K.Thakur and Vijay Kumar Thakur “ Effect of Surface modification of Natural Cellulosic Fibers on the Dielectric and Mechanical Properties of Polymer Composites” in the book “ Surface Modification of Biopolymers” 978-1-118-66955-6;, 2014 Wiley-VCH, USA
22. V.K.Thakur, **A.S.Singha** and M.K.Thakur, “ [Fabrication and Physical Properties of High Performance Pine Needles/Green Polymer Composites](#) ” International Journal of Polymeric Materials, 62 (4 ), 226-230, **2013**
23. V.K.Thakur, M.K.Thakur and **A.S.Singha**, “ [Free Radical Induced Graft Copolymerisation Onto Natural Fibers](#) ”, International Journal of Polymer Analysis and Characterisation, 18 (6 ), 430-438, **2013**
24. **A.S.Singha**, ashish Gularia and Raj K Rana, “[Adsorption and Equilibrium Isotherms, Study on Removal of copper \(II\) Ions from Aqueous Solution by Chemically Modified Abelmoschus Esculentus Fibers](#)”, International journal of polymer Analysis and Characterisation, online, 18th June, 2013.
25. V.K.Thakur, **A.S.Singha** and M.K.Thakur, “ Synthesis of Natural Cellulose-Based Graft Copolymers Using Methyl Methacrylate as an Efficient Monomer ”, Advances in Polymer Technology, Vol. 32, No. S1, E741-E748, 2013.
26. **A.S.Singha**, Ashish Gularia and Raj K Rana , “ Tailoring Surface Properties of Cellulosic Fibers Through Chemically Initiated Graft copolymerization of Butyl Acrylate,” Trends in Carbohydrate Research, **5(4)**, 33-45, 2013
27. V.K.Thakur, **A.S.Singha** and M.K.Thakur, “ Natural Cellulosic Polymers as Potential Reinforcement in Composites : Physicochemical and mechanical Studies ”, Advances in Polymer Technology, Vol.32, No. S1, E 427-E435, 2013.
28. **A.S.singha**, Ashish Gularia, Raj K .Rana and Ashvinder K Rana, “ [Characterization and Evaluation of Thermal, Morphological and Physico-chemical Properties of Chemically Modified Lignocellulosic Biomass](#)”, International Journal of Polymer Analysis and Characterisation , 18 (5 ), 377-389,03 July,2013
29. **A.S.Singha** and Raj K. Rana , “ [Preparation and Properties of Agave Fiber Reinforced Polystyrene Composites](#)” , Journal of Thermoplastic Composite Materials , 26 (4), 513-526, May,2013
30. V.K.Thakur, A.S.Singha and M.K.Thakur, “[Ecofriendly Biocomposites from Natural fibers: Mechanical and weathering Study](#)”, International Journal of Polymer analysis and Characterisation, 18 (1 ),64-72, 2013
- 31.
32. A.S.Singha , Ashvinder K Rana and R.K.Jarial, “[Mechanical, Dielectric and Thermal Properties of Grewia optiva Fibers Reinforced Unsaturated Polyester](#)

2012

33. Matrix Based Composites” Materials and Design , 51,924-934,2013 120  
A.S.Singha, Ashish Gularia and Raj K Rana, “Ascorbic Acid / H2O2 Initiated Graft Copolymerization of Methyl methacrylate Onto Abelmoschus Esculentus Fiber : A Kinetic Approach, International Journal of Polymer Analysis and Characterization, 18 (1), 01-14, 2013
34. A.S.Singha and Ashvinder K Rana ,“ Effect of Aminopropyltriethoxysilane (APS) treatment on Properties of Mercerised Grewia Optivav Fibers ” J. Polymer and Environment , 21 (1 ), 141-150, 2013
35. A.S.Singha and Aishwarya Jyoti , “Mechanical, Morphological and Thermo Properties of Chemically Treated Pine needles reinforced Thermosetting Composites”, Journal Applied Polymer Science , 127 ( 1 ), 387-393 January 2013
36. A.S.singha and Raj K Rana, “Fabrication of Polystyrene/Agave Particle Biocomposites using Compression Molding Technique : Evaluation of Flammability ,Biodegradability, Mechanical and Thermal Behaviour ”, Bulletin of Material Science, vol. **36** (7),1207-16, 2013
37. M.K.Thakur, Vijay Kumar Thakur and A.S. Singha “ Effect of physic-chemical conditions on biomass based biocomposites” “ Biomass-based Biocomposites” 2013 ISBN:9781847359803, Smithers rapra Technology (U.K.)
38. V.K.Thakur, A.S.Singha and Manju K Thakur “Rapid Synthesis of MMA Grafted Pine Needles Using Microwave Radiation” Journal of Polymer Plastics , Technology and Engineering, 51(11),1598-1604,2012 (Taylor and Francis).
39. A.S.Singha and Ashvinder K Rana, “ Effect of Surface Modification of Grewia optiva Fibers on Their Physico- chemical and Thermal Properties” Bulletin of Material Science , 35 ( 7 ), 1099-1110, December, 2012
40. A.S.Singha and Ashvinder K Rana , "Preparation and Characterization of Graft Copolymerized Cannabis indica fiber Reinforced Unsaturated Polyester Matrix Based Bio-composites" Journal of Reinforced Plastics and Composites 31 (22 ), 1538-1553, Nov. 2012
41. V.K. Thakur, A.S.Singha and M.K. Thakur, “ Modification of Natural Biomass by Graft Copolymerization”, International Journal of Polymer Analysis and Characterization, 17 (7 ), 547-555,, Aug. 2012
42. V.K. Thakur, A.S.Singha and M.K. Thakur, “Green Composites from Natural fibers : Mechanical and Chemical aging Properties” International Journal of Polymer Analysis and Characterization, 17(6 ),401-407, Aug. 2012
43. A.S.Singha and Raj K. Rana, “ Functional Polymers from Lignocellulosic Materials : Synthesis , Characterisation and Evaluation of Properties”, International Journal of Polymer Analysis and Characterization,17 (7), 499-514 Aug. 2012
44. A.S.Singha, Raj K Rana and Ashish Gularia, “Functional Polymers from Graft Copolymerization of Binary Monomer Mixtures onto Lignocellulosic Biomass: Synthesis, Characterization and Properties Evaluation” Lignocellulose , 1 ( 2 ), 129-152, July, 2012
45. V.K.Thakur, A.S.Singha and M.K.Thakur "Biopolymers Based Green Composites: Mechanical, Thermal and Physico-chemical Characterization" J. Polym Environ, 20(2),412-421, June 2012

46. A.S.Singha and Ashvinder Rana "A study on Benzoylation and Graft copolymerization of Lignocellulosic Cannabis indica fiber" J Polym Environ, 20(2),361-371,June 2012
47. A.S.Singha and Raj K.Rana, "Chemically induced Graft Copolymerization of Acrylonitrile onto lignocellulosic fibers" Journal of Applied Polymer Science ( JAPS ) 124 (3), 1891-1898 , May, 2012
48. A.S.Singha and Ashvinder Rana, "Effect of Silane Treatment on Physico-chemical properties of Lignocellulosic Cannabis indica Fiber " Journal of Applied Polymer Science ( JAPS ) 124(3), 2473-2484, May ,2012
49. V.K.Thakur ,A.S.Singha and M.K.Thakur, " Graft copolymerization of Methyl Acrylate onto Cellulosic Biofibers : Synthesis , Characterisation and Applications" J. Polym Environ, 20 (1 ), 164-174, March ,2012
50. V.K. Thakur, A.S.Singha and M.K. Thakur " "Surface Modification of Natural Polymers to Impart Low Water Absorbency" International Journal of Polymer Analysis and Characterization, 17 (2 ),133-143,Feb. 2012
51. A.S.Singha and Raj K. Rana , "Functionalisation of Cellulosic fibers by Graft Copolymerisation of acrylonitrile and Ethyl acrylate from their Binary Mixtures" J. Carbohydrate Polymers 87 (1) ,500-511 , Jan 2012.
52. A.S.Singha and Ashvinder K Rana "Ce(IV) ion initiated and microwave radiation induced graft copolymerization of acrylic acid onto lignocellulosic fibers, International Journal of Polymer Analysis and Characterisation ( IJPAC ), 17 ( 1 ), 72-84, (2012)
53. A.S Singha and Ashvinder K Rana "Improvement of interfacial adhesion in Cannabis indica/ Unsaturated Polyester biocomposites through esterification reaction" International Journal of Polymer Analysis and Characterization,17 ( 8 ), 590-599, 2012
54. A.S Singha and Ashvinder K Rana , "Effect of Graft Copolymerization on mechanical, Thermal and Chemical Properties of Grewia optiva /Unsaturated Polyesters Biocomposites" , Polym Compos 33 (8 ),1403-1414, 2012
55. A.S.Singha and Aishwarya Jyoti Khanna, "Influence of Chemical Modification on the Mechanical, Morphological and Thermal Properties of Pine Needles Reinforced Thermosetting Composites " Chem. Sci. Trans. 1(1), 61-72, 2012
56. A.S.Singha and Raj K Rana "Natural Fiber Reinforced Polystyrene Composites: Effect of Fiber Loading, Fiber Dimensions and Surface Modification on Mechanical Properties" Journal of Materials and Design 41, 289-297,2012
57. A.S.Singha and Ashvinder K Rana "A comparative study on functionalization of Cellulosic bio fiber by graft copolymerization of AAc in air and under the influence of MWR" J. BioResources 7 (2),2019-2037,2012
58. V.K. Thakur, A.S.Singha and M.K. Thakur "In Air Graft copolymerization of Ethyl acrylate onto Natural Cellulosic Polymers" International Journal of Polymer Analysis and Characterization ( IJPAC ), 17 (1), 48-60, 2012 (Taylson and Francis)
59. Vijay Kumar Thakur, a.S. Singha and M.K.Thakur " surface Modification of Natural Polymers to Impart Low Water Absorbency" International Journal of Polymer Analysis and Characterization, 17(2), 133-143, 2012( Taylor and Francis)
60. Vijay Kumar Thakur, A.S. Singha and M.K.Thakur : Biopolymers Based Green Composites: Mechanical, Thermal and Physico-chemical characterization" Journal of Polymers and the Environment, 20(2)412-421, 2012(Springer)

2011

61. Vijay K Thakur , A.S.Singha, I.K Mehta, R.K Pudukotai, Nagarajarao and Yang Liping “ Studies on Analysis and Characterisation of Phenolic Composites Fabricated from Lignocellulosic fibers” Polymer and Polymer Composites , 19 (6), 505-512, 2011
62. A.S.Singha and Raj K. Rana, “Effect of Functionalization of Lignocellulosic Fibers on their Physico- Chemical and Thermal Properties" International Journal of Polymeric Materials ,60( 10 ),729-741, 2011
63. Vijay K Thakur ,A.S.Singha, “Rapid Synthesis, Characterisation And Physiochemical Analysis of Biopolymer Based Graft Co-polymers” International Journal of Polymer Analysis and Characterisation , 16(3) 153-164, 2011
64. Vijay K Thakur and A.S.Singha and Bhupindra Nath Misra “ Graft copolymerization of Methyl Methacrylate onto Cellulosic Biofibers" Journal of Applied Polymer Science ( JAPS ) 122 ( 1 ),532-544,2011
65. V.K.Thakur and A.S.Singha , “ Physico -chemical and Mechanical Behaviour of Cellulosic Pine Needle Based Biocomposites ” International Journal of Polymer Analysis and Characterisation , 16(6) 390-398, 2011
66. A.S.Singha and Ashvinder Rana , "Kinetic study on acrylic acid (AAc) graft copolymerized Cannabis indica fiber" Iranian Polymer Journal 20 (11)913-929, 2011
67. A.S.Singha , B.S.Kaith Inderjeet Kaur and Aishwarya Jyoti Khanna, “Synthesis and Characterisation of Pine Needles fibers Reinforced Urea-Resorcinol – Formaldehyde (URF)Matrix Based Composites ” E-Journal of Chemistry 8 (4), 1478-1489 , 2011
68. A.S.Singha, B.S.Kaith and Khanna. A.J, “Synthesis and Characterization of Cannabis indica Fiber Reinforced Composites ”, J. Bio Resources6 (2 ), 2101-2117, 2011

2010

69. Ashish Chauhan, B.S.Kaith, A.S.Singha and D.Pathania, “Induction of the Morphological Changes in Hibiscus sabdariffa on Graft copolymerization with acrylonitrile and co-vinyl monomers in binary mixture” Malaysian Polymer journal, Vol. 5,No. 2,140-140,2010
70. Vijay K Thakur and A.S.Singha “ Evaluation of GREWIA OPTIVA Fibers as reinforcement in Polymer Bio-composites” ,Polymer-Plastic Technology and Engineering ,49 (11),1101-1107,2010
71. Anjana kumari,Balbir singh kaith, , A.S. Singha and Sushil Kalia “Synthesis, Characterisation and Salt resistance swelling behavior of Psy-g-poly(AA) hydrogel” Advanced Material Letters, 1 (2),123-128 ,2010
72. Vijay K Thakur ,A.S.Singha, “KPS-Initiated Graft Copolymerisation onto Modified Cellulosic Bio Fibers”, International Journal of Polymer Analysis and Characterisation, 15(8) ,471-485, 2010
73. A.S.Singha and Raj K. Rana “ Enhancement of Hydrophobic character of Lignocellulosic Fibers Through Graft Co polymerization ”, Advanced Material Letters, 1 (2), 156-163, 2010
74. A.S.Singha, Raj K. Rana and Ashvinder K Rana, “Natural Fiber reinforced Polystyrene Matrix Based Composites” Advanced Materials Research ,Trans Tech Publications, Switzerland, Vol. 123-125, 1175-1178, 2010
75. Vijay K Thakur ,A.S.Singha , I.K Mehta R.k Pudukotai, Nagarajarao and Yang Liping “Silane Functionalisation of saccharam cilliare Fibers : Thermal, Morphological and physic-chemical Study” International Journal of Polymer

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## Papers in the Proceedings of International Conferences

Year	No.	Authors: "Title of the Research Paper" "Name of the Conference"(Country)
2016	1.	A.S. Singha "Dielectric-Mechanical and Thermal Properties of Raw/Surface Modified Biofibers Reinforced Unsaturated Polyester Matrix based Composites, International Conference on Material Science and Technology (ICMTech-2016 held at University of Delhi we.f. March01-09-04-1016
2014	2.	A.S.Singha, " Application of low cost biomass based adsorbent for removal of toxic metal ions from polluted water ", APA International Conference on Polymers : Vision & Innovations ( APA 2014 ),held at India Habitat Centre , New Delhi on February 19-21,2014
	3.	A.S.Singha and Ashish Guleria, " Removal of toxic ions from Aqueous solution by succinylated Cellulosic Biofibers ", APA International Conference on Polymers : Vision & Innovations ( APA 2014 ), held at India Habitat Centre, New Delhi on February 19-21, 2014

**2013**

4. A.S.Singha, “ Surface Modification of Biofibers and Their Utility as Reinforcement in the Fabrication of Unsaturated Polyester Based Composites”, 12th International Conference on Frontiers of Polymers and Advanced Materials(12<sup>th</sup> ICFPAM), held at University of Auckland ( New Zealand ), December 08-13,2013
5. A.S.Singha and Ashish Guleria, “Functionalization of Cellulosic Biomass by Graft Copolymerization and its Potential Towards Removal of Heavy Metal Ions From Waste Water ” C-53, page 287, International Conference on Interdisciplinary Areas With chemical Sciences, Held at Punjab University, Chandigarh on October 30-November 01,2013
6. A.S.Singha and Himanshu Kapoor, “Silk Fibroin Fiber Reinforced Starch/PVA Composites and Evaluation of Their Mechanical and Thermal Properties”, D-14, Page,309 ,International Conference on Interdisciplinary Areas with Chemical Sciences” (ICIACS-2013 ), Held at Punjab University Chandigarh, October 30-November 01,2013
7. Bhanu Priya, Deepak Pathania and A.S.Singha, “Bioderabable Composite Films Prepared From Blends of Corn Starch/Polyvinyl alcohol and Lignocellulosic Fibe(*Grewia Optiva*)”, B-14,m page 182, International Conference on Interdisciplinary Areas with Chemical Sciences ”, Held at Punjab University Chandigarh, October 30-Nonember 01, 2013
8. A.S.Singha, “ Role of Fuel Chemistry in Transportation” International work shop on Exploring Science of Transportation Systems , April 11-12,2013, organized by Department of Mechanical Engineering, NIT Hamirpur, India
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10. Deepak Pathania, Bhanu Priya, Amar Singh Singha,“Surface modification of delignified *Grewia optiva* fibers with MMA vinyl monomer”. APA 2013 , February 21-23, 2013, Chandigarh, India
11. A.S.Singha and Ashish Guleria, “Adsorption of copper ions from aqueous solution by graft copolymerized cellulosic fibers” APA 2013 , February 21-23, 2013, Chandigarh, India
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13. A.S.singha and Ashvinder K Rana, “Surface Modification of *Grewia optiva* fiber and its Influence on Mechanical Properties of Resulted UPE matrix Based Bio-composites”,Third International Conference (ICNP – 2012): October 26, 27 & 28, 2012, Kottayam, Kerala, India
14. A.S.Singha and Ashvinder K Rana, “Improvement of interfacial adhesion in *Cannabis indica*/Unsaturated Polyester biocomposites through Esterification Reaction" 'Third International multi component polymer conference' (IMPC 2012) held at MK University Kottayam Kerala ( India ),March 23-25,2012

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17. A.S.Singha “[Surface Modification of Natural Fibers](#)” MACRO-2010, IIT Delhi, December 24-27,2010
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27. B.S.Kaith, A.S.Singha and Shabnam Ranjta, “[Gum Arabic based Hydrogels as selective water absorbaents from petroleum fraction –water emulsions](#)”,Polymer Congress ‘APA 2009’ Organised by Asian Polymer association December 17-20, 2009 at New Delhi, India
28. Raj K. Rana and A.S.Singha, “ [Surface Modification of Agave Americana fibers and Evaluation of their Physico-chemical Properties](#)”, Polymer Congress



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  30. A.S.Singha Raj K. Rana, “[Evaluation of Mechanical Properties of Biomass Reinforced Polystyrene based Composites](#)” Polymer Congress ‘APA-2009’, Organised by Asian Polymer association, December 17-20, 2009 at New Delhi, India
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50. Susheel kumar, B.S.kaith and A.S.Singha, “Graft Co-polymerisation of Methylmethacrylate onto Flax and Evaluation of Some Physical and Chemical Properties”, Proceedings of National Seminar on Polymer Materials: PP 33 ATIRA, Ahmedabad (Gujarat) December 10, 2005
51. B.S.Kaith, A.S.Singha and Ashwarya Jyoti Khanna “Applications of Waste Bio-mass as Reinforcing Material in P-R-F Based Composites and Study of their Mechanical and Thermal Behaviour” Proceedings of National Seminar on Polymer Materials: PP 15 ATIRA, Ahmedabad ( Gujarat ) December 10, 2005
52. B.S.Kaith, A.S.Singha And Ashish Kumar , “XRd and TGA/DTA Studies of Hibiscus Sabdariffa – G- Poly Methylacrylate”UGC- SAP National Seminar on Recent Trends in Synthetic and Polymer Chemistry( RTSPC-I ) , PP 09 Himachal Pradesh University, Shimla , December 05-07 2005
53. A.S.Singha, B.S.Kaith and Ashwarya Jyoti Khanna, “Tensile / Compressive Strength, Toughness and Wear Resistance of U-R-F Resin Based Composites Reinforced with Pine Needles”UGC- SAP National Seminar on Recent Trends in Synthetic and Polymer Chemistry (RTSPC-I), PP 15, Himachal Pradesh University, Shimla, December 05-07 2005
- 2004 54. B.S.Kaith and A.S.Singha“ FAS-KPS Induced Graft Co-Polymerisation of Binary Vinyl Monomer Mixtures And Flax Fibre” 41th Annual Convention of Chemists , pp E-2 , University of Delhi,Delhi, December 23-27, 2004
55. A.S.Singha, and Kaith, B.S. “Evaluation of Some Physical Properties of Graft Co-Polymers of Hibiscus Sabdariffa with Methyl acrylate and Its Binary Mixture”, 41st Annual Convention of Chemists, pp E-2, University of Delhi, Delhi, December 23-27, 2004
56. Kaith, B. S., A.S.Singha, and Kumar Sanjeev, “Evaluation of Mechanical Behaviour of Polystyrene Composites using Flax-g-Co-polymer as Reinforcing Materials”,Proceedings of the National Conference on“Materials and their Applications in Civil Engineering [MACE-2004]”, pp. 120-124, NIT Hamippur .August 26-27, 2004
57. Kaith, B. S., Singha, A. S., Kumar Susheel and Pathania Deepak, “Effect of Pressure on the Graft Co-polymerization of Methylmethacrylate onto Flax fibre and evaluation of some Chemical and Physical Properties”,Proceedings of the National Seminar on Polymers and Applications, February 5-7, 2004, NITTT & R-Chandigarh
- 2003 58. B.S.Kaith and A.S.Singha “Modification of Natural polymer: Ferrous Ammonium Sulphate- Potassium Persulphate Initiated Graft Co-polymerisation of Binary Vinyl Monomer Mixtures onto Flax Fibre” 40th Annual Convention of Chemists, pp E-8, BundelkhandUniversity, Jhansi, U.P. December 23-27, 2003
59. A.S.Singha and B.S.Kaith “A Study of Swelling and Moisture Absorbance Behavior of Graft Co-polymers of Flax Fibre with different Binary Vinyl Monomer Mixtures” 40th Annual Convention of Chemists, pp E-10, Bundelkhand University, Jhansi, U.P. December 23-27, 2003

- 2002**
60. B.S.Kaith and A.S.Singha "Optimization of grafting parameters: "Study of Thermal and Swelling behaviour of Jute fibre and Graft Co-polymer", 39th Annual Convention of Chemists, pp, Nagarjuna University, Vijay Wada (A.P.), December 22-26 2002
61. A.S.Singha and B.S.Kaith "Modification of Thermal and Swelling Properties of Rayon through Graft Co-polymerisation" 39th Annual Convention of Chemists, Nagarjuna University, Vijayawada (A.P.), December 22-26 2002
- 2001**
62. A.S.Singha and B.S.Kaith "Synthesis of Graft Co-polymers of Flax fibre with binary monomer mixtures and their Moisture Absorbance studies" Proceedings of 38th Annual Convention of Chemists, JNV University, Jodhpur (Rajasthan), December 26-29, 2001
63. B.S.Kaith and A.S.Singha "Comparative study on Thermal behaviour of Some Cellulosic fibres" Proceedings of 38th Annual Convention of Chemists, JNV University, Jodhpur (Rajasthan), December 26-29, 2001
- 2000**
64. B.S.Kaith and A.S.Singha "Modifications of Natural Polymers II: Ceric ion induced Grafting of Methylacrylate onto Flax fibre" Proceedings of 37th Annual Convention of Chemists, Gurukul Kangri University, Haridwar, November 15-18, 2000
65. A.S.Singha and B.S.Kaith "Modifications of Natural Polymers I: Graft Co-polymerizations of Methyl methacrylate onto Cellulose fibre extracted from Flax" Proceedings of 37th Annual Convention of Chemists, Gurukul Kangri University, Haridwar, November 15-18, 2000
- 1999**
66. A.S.Singha, B.S.Kaith and G.S.Chauhan "Polymers and our Environment-A Review" Proceedings of the National Seminar on "Environmental Hazard and Sustainable Development" pp 90-95, NIT, Hamirpur (H.P.) November 22- 23, 1999
- 1998**
67. B.S.Kaith and A.S.Singha "Modification of Environmental friendly Natural Polymers II: Co-polymerisation of MA onto Rayon fibre using CAN redox initiator" Proceedings of National Seminar on "Pollution Prevention and Control" (PPC-98), NIT, Hamirpur (H.P.) pp 179-188, November 08-09, 1998
68. A.S.Singha and B.S.Kaith "Modification of Environmental friendly Natural Polymers I: Graft Co-polymerisation of MMA onto Jute fibre using CAN as redox initiator" Proceedings of National Seminar on "Pollution Prevention and Control" (PPC-98), NIT, Hamirpur (H.P.) pp 168-178, November 08-09, 1998
69. A.S.Singha and B.S.Kaith " Graft Co-polymerisation of Methyl methacrylate onto Rayon in presence of Ceric ammonium nitrate as redox initiator" Proceedings of the 35th Annual Convention Of Chemists, University of Karnataka, Dharwad (Karnataka), November 04-07, 1998
70. B.S.Kaith and A.S.Singha "Modification of Natural Polymers I: Graft Co-polymerization of Methyl methacrylate onto Cannabis indica fibres" Proceedings of the 35th Annual Convention of Chemists, University of Karnataka, Dharwad (Karnataka), November 04-07, 1998
- 1997**
71. A.S.Singha and B.S.Kaith "Synthesis of Biologically active derivatives of N-Acyl-O-alkylhydroxylamines" Proceedings of the 34th Annual Convention of Chemists, New Delhi, December 17-20, 1997
72. A.S.Singha and B.S.Kaith "Ceric Ion Initiated Graft Co-polymerisation of Methylacrylate onto Cannabis indica fibre" Proceedings of the 34th Annual Convention of Chemists, New Delhi, December 17-20, 1997

73. B.S.Kaith and A.S.Singha "Biologically Active Compounds Isolated From *Pluchea Lanceolata* Flowers" Proceedings of the 34th Annual Convention of Chemists, New Delhi, December 17-20, 1997
- 1996 74. B.S.Kaith and A.S.Singha "Biological Activity of *Arnebia euchroma* roots" Proceedings of 33rd Annual Convention of Chemists, Coimbatore, December 26-29, 1996
75. A.S.Singha and B.S.Kaith "Anti-Inflammatory activity of *Arnebia euchroma* roots" Proceedings of 33rd Annual Convention of Chemists, Coimbatore, December 26-29, 1996
76. B.S.Kaith and A.S.Singha "PVC Plastics-A Primary Contributor to the Global Dioxin-Crisis, As an Alternate Civil Engg. Material" Proceedings of National Seminar on Alternate Construction materials in Civil Engg. [ACM-96]pp 110-116 ,NIT Hamirpur, December 10-11,1996
- 1995 77. B.S.Kaith, A.S.Singha, and N.S.Thakur "Thermal Power Plants and Environment" Proceedings of the National Seminar on Power Scenario in India, NIT Hamirpur, October 14-15, 1995
78. A.S.Singha and B.S.Kaith "Synthesis of N-acyl-O-alkylHydroxylamines and their derivatives" Proceedings 31st Annual Convention of Chemists Calcutta, December 1995
79. B.S. Kaith and A.S.Singha "Antimicrobial activity of *Arnebia euchroma* roots" Proceedings 31st Annual Convention of Chemists Calcutta, December 1995
80. A.S.Singha and B.S.Kaith "Chemical and Radiation induced Grafting onto Wool" Proceedings of the National Seminar on Polymers, Plastic Institute and Chemical Engg. Department, P.U.Chandigarh, December 22-23, 1995
- 1993 81. A.S.Singha and B.S.Kaith "Acylation of Hydroxamic acids" Proceedings of 29th Annual Convention of Chemists, Reva (M.P.) February 24-27, 1993
82. A.S.Singha and B.S.Kaith "Isolation of Neolupenol and anti-arthritis activity" Proceedings of 29th Annual Convention of Chemists, Reva (M.P.) February 24-27, 1993
- 1992 83. A. S.Singha and B.S.Kaith "Effect of Corrosion of reinforcement on concrete" Proceedings of National Seminar "Use of concrete in off shore structure, Docks and Harbours" IIT Roorkee, October 16-17, 1992
- 1991 84. B.S. Kaith and A.S.Singha "Phytochemical and anti-inflammatory investigations of *Pluchea Lanceolata*" 28th Annual Convention of Chemists, Calcutta, December 1991
85. A. S.Singha and B.S.Kaith "Some studies towards synthesis of N-Acyl -O-alkyl Hydroxylamines and their derivatives" 28th Annual Convention of Chemists, Calcutta, December 1991
- 1989 86. A.S.Singha "Synthesis of N-acyl-O-alkyl Hydroxylamines and their derivatives" 26th Annual Convention of Chemists, Indore, December, 1989.



## INTERNATIONL CONFERENCES ATTENDED

Year	No.	Name of conference/Workshop/Seminars
2016	1.	Attended International Conference on Material Science & Technology(ICMTech-16) at University of Delhi w.e.f. March01-04,2016
2014	2.	APA International conference on Polymres: Vision and Innovations( APA 2014 ), organized by IIT Delhi at India habitat Centre New Delhi on February 19-21,2014
2013	3.	12th International Conference on Frontiers of Polymers and Advanced Materials(12 <sup>th</sup> ICFPAM), held at University of Auckland ( New Zealand ), December 08-13,2013
	4.	International conference on <a href="#">the Frontiers of Science and Technology</a> , Organisedby Asian Polymer Association at PU Chandigarh ( APA-2013 ), Feb. 21-23,2013
2012	5.	3rd International <a href="#">Multi-functional Polymer Conference</a> , organized by IMSE Kottayam, RMIT University Melbourne (Australia) and M.K. University Kottayam ( Kerala), March 23-25,2012
2011	6.	11th International conference on <a href="#">Frontiers of Polymers and Advanced Materials</a> ,Organised by University of Pretoria, South Africa w.e.f May 22-27, 2011
2010	7.	2nd International Conference on <a href="#">Natural Polymers and Biomaterials ( ICNP-2010)</a> , held at Kottayam ( Kerala ),w.e.f September,24-26,,2010
	8.	7th International symposium on <a href="#">Fuels and Lubricants (ISFL-2010)</a> , Held atNew Delhi w.e.f March 09-12, 2010
	9.	2nd International Conference on <a href="#">Polymer Processing and Characterisation (ICPPC-2010)</a> ,held at Kottayam ( Kerala ),w.e.f January 15-18,2010
2009	10.	International Conference on <a href="#">Advances in Polymer Science &amp; Technology</a> , ‘APA-2009’ held at , New Delhi, w.e.f December 17-20,2009
	11.	International Conference on <a href="#">Polymers (POLYMCON’09)</a> , held at National Institute of Technology( NIT ), Calicut ( Kerala), January 09-11,2009
2008	12.	6th International Symposium on <a href="#">Fuels and Lubricants</a> held at New Delhi March 09 - 12, 2008,
2007	13.	International Conference on <a href="#">Advances in Polymer Science &amp; Technology (POLY-2008)</a> , New Delhi, January 28-31, 2007
	14.	International Conference on <a href="#">polymeric Materials in Power Engineering (ICPMPE)</a> ,Bangalore (India) October 04-06, 2007
	15.	7th International Conference and Exhibition ( <a href="#">Petrotech –2007</a> ), New Delhi, India, January 15- 19, 2007
2006	16.	International Conference on <a href="#">“Integrated Value Education,”</a> held at Bangalore w.e.f. June 26-28, 2006
	17.	5th International Symposium on <a href="#">Fuels and Lubricants</a> held at New Delhi March 07 - 1, 2006
2005	18.	40th <a href="#">IUPAC Congress</a> , Beijing, CHINA, August 14-19, 2005
	19.	6th International Conferences and Exhibition ( <a href="#">Petrotech –2005</a> ), New Delhi, India, January 15- 19, 2005
2003	20.	International Conference on <a href="#">Emerging Technology (ICET-2003)</a> ,KIIT,Bhubaneswar (Orissa), December 19-21, 2003

2001	21.	5th International Conference and Exhibition ( <a href="#">Petrotech-2003</a> ), New Delhi, India, January 09-12, 2003
	22.	International <a href="#">Congress of Chemistry and Environment (ICCE-2001)</a> , Indore (India), December 16-18, 2001
	23.	4th International Conference and Exhibition ( <a href="#">Petrotech-2001</a> ), New Delhi, India, January 09-12, 2001
1999	24.	37th <a href="#">IUPAC Congress</a> , Berlin, Germany, August 14-19, 1999
1998	25.	3rd International Conference and Exhibition ( <a href="#">Petrotech-99</a> ), New Delhi, India, January 09-12, 1999
	26.	International Conference on “ <a href="#">Hydro-power Development in Himalayas</a> ”, Shimla, April 20-22, 1998
1997	27.	36th <a href="#">IUPAC Congress</a> , Geneva, Switzerland, August 17-22, 1997
1996	28.	11th International Conference on “ <a href="#">Organic Synthesis</a> ”, held at Amsterdam, the Netherlands, June 30-July 04, 1996
1994	29.	10th International Conference on “ <a href="#">Organic Synthesis</a> ”, held at Indian Institute Of Science, Bangalore, India, December 11-16, 1994

## NATIONAL CONFERENCES/SEMINARS/WORK-SHOPS ATTENDED

Year	Sr. No.	Name of Conference/workshop/Seminars Attended
2014	1	National Seminar on recent Trends in Materials, Energy and Environment (NSRTMEE 2014 ), held at Sri Sai University, Palampur (HP) on January, 18, 2014.
2013	2	National work shop on “Building Institutions of Higher Education for Tomorrow” organized by International Management Institute, ( IMI ), New Delhi, December 26-27, 2013.
2011	3	National Seminar on “ <a href="#">Frontiers in Polymer Science</a> ” organized by Chemistry Department , Himachal Pradesh University , Shimla Under UGC-SAP ( DRS- II ), November 18-19, 2011.
	4	<a href="#">Padagogy Training for Faculty, training programme</a> held at NIT Hamirpur By EQUATE, March 20-22, 2009.
2008	5	National Conference on <a href="#">Mechanism Science and Technologies: from Theory to Applications</a> , NCMSTA’08 Organised by Mechanical Engineering Department NIT Hamirpur, November 13-14, 2008
2007	6	<a href="#">Management capacity building programme</a> held at NIT Hamirpur and Conducted by EQUATE, May 23-27, 2008
	7	National Conference on “ <a href="#">Recent Advances In innovate Materials</a> ” (RAIM) held at NIT Hamirpur, February 15-16, 2008
	8	<a href="#">ISTE Section Annual Convention (SAC-2007)</a> held at NIT Hamirpur on November 18-19, 2007
	9	Work shop Training on “ <a href="#">Culture Building through Team Work</a> ”, Organised by Department of Applied Sciences and Humanities, NIT Hamirpur on April 21-22, 2007
2006	10	<a href="#">Induction Training Programme for Teachers</a> Held at NIT Hamirpur, Jan. 2006
	11	Workshop on “ <a href="#">Technology Management-Prospects and Profits</a> ” Organized by Institution of Engineers (India), H. P. Centre at Shimla on June 17, 2006

<b>2004</b>	12	<a href="#">41st Annual Convention of Chemists</a> , University of Delhi, Delhi, December 23-27, 2004.
<b>2002</b>	13	National Seminar on <a href="#">“Latest Analytical Techniques in Catalyst Characterization”</a> , Hotel Le Meridien, New Delhi, December 27, 2002
	14	<a href="#">39th Annual Convention of chemists</a> , Nagarjuna University, Vijayawada (A.P.) December 22-26, 2002
<b>2001</b>	15	<a href="#">38th Annual Convention of chemists</a> , JNV Jodhpur (Rajasthan), December 26-29, 2001
	16	Work-shop on <a href="#">“National Environment Awareness Campaign”</a> (NEAC 2001-02), HIPA, Shimla, March 19-20, 2001
<b>2000</b>	17	<a href="#">37th Annual Convention of chemists</a> , Gurukul Kangri University, Harwar, November 15-18, 2000
<b>1999</b>	18	National Seminar on <a href="#">“Environmental Hazards and Sustainable Development”</a> NIT, Hamirpur, November 22-23, 1999
<b>1998</b>	19	<a href="#">35th Annual Convention of chemists</a> , University of Karnataka, Dharwad, November 04-07, 1998
<b>1997</b>	20	<a href="#">34th Annual Convention of chemists</a> , University of Delhi, December 17- 20, 1997
<b>1996</b>	21	<a href="#">33rd Annual Convention of chemists</a> , Coimbatore, December, 1996
	22	National Seminar on <a href="#">“Alternate Construction Materials in Civil Engineering”</a> (ACM-96), NIT, Hamirpur, December 10-11, 1996
<b>1995</b>	23	National Seminar on <a href="#">“Power Scenerio in India”</a> , NIT, Hamirpur (H.P.).1995
	24	<a href="#">32nd Annual Convention of chemists</a> , Jaipur (Rajasthan), December 26- 29, 1995
	25	<a href="#">“National Seminar on Polymers”</a> , Punjab University, Chandigarh, December 22-23, 1995.
<b>1993</b>	26	<a href="#">29th Annual Convention of chemists</a> , Rema (M.P.), December 1993
<b>1991</b>	27	<a href="#">28th Annual Convention of chemists</a> , Calcutta, December 17-21, 1991
	28	Work-shop on <a href="#">“Opportunity Identification in Chemical Products”</a> , <a href="#">Science and Technology Entrepreneurs Park (STEP)</a> H.P.University, Shimla
<b>1989</b>	29	<a href="#">26th annual Convention of Chemists</a> , Indore, December, 1989
<b>1988</b>	30	Work-shop on <a href="#">“Drug Abuse and Awareness”</a> , NIT (then REC) Hamirpur, H.P., April 04, 1988
	31	Work-shop on <a href="#">“Development Mix and Environment Consequences”</a> , H.P.Vigyan Manch, Shimla, 1988
	32	5th Simla Conference on <a href="#">“Recent Advances in Mathematical Techniques and Applications”</a> , Shimla, 1988
<b>1987</b>	33	<a href="#">National work-shop on development of +3 Curriculum</a> s, Himachal Pradesh University, Shimla, 1987.

## NATIONAL CONFERENCES/WORK-SHOPS ORGANISED

Year	Sr. No.	Name of Conference/workshop/Seminars Organised
2013	1.	Coordinator work shop for Ministerial Staff on “ <a href="#">Effective Office Management</a> ” Organised by NIT Hamirpur Under TEQIP-II, September 16-20,2013
	2.	Organised Two Day Programme on “ <a href="#">Tally System of Accounts</a> ” , under TEQIP –II, at NIT Hamirpur , July 15-16,2013
	3.	Co ordinator, work shop for Technical supporting staff on “Management of Engineering Labotatories for Innovative Experiments” under TEQIP-II ,organized by NIT Hamirpur w.e.f December 02-06,2013
2010	4.	Chairman Organizing Committee, National Conference on “ <a href="#">Advances in Polymer Science and Technology</a> ” (APST-2010)”, Organised By Department of Chemistry, National Institute of Technology, Hamirpur w.e.f. October 22-24,2010
	5.	Coordinator, Short Term Programme on “ <a href="#">Challenges and Opportunities in Science And Technology</a> ” under Community Development Programme, organized by Department of Chemistry , NIT Hamirpur w.e.f. June 14-18,2010
2009	6.	Member Organising committee, “ <a href="#">WinterSchool on Internet Technologies</a> ” (IT-2009),Organised by NIT Hamirpur w.e.f December 21-25,2009
	7.	Member Organising committee, “ <a href="#">Network fundamentals</a> ” NF-09, organised by CSE Department, NIT Hamirpur Dec. 13-14,2009
	8.	Member Advisory committee, “ <a href="#">National Seminar on Nuclear Technology for Nation Building</a> ” (NTNB-09), Held at NIT, Hamirpur on August,09,2009
2008	9.	Organised Two Days “ <a href="#">RTI workshop</a> ” at NIT Hamirpur, August 29-30,2009
	10.	Member organizing committee, Contact Meeting on “ <a href="#">National Fusion Programme</a> ”, held at NIT Hamirpur on November 29, 2008.
	11.	Co-Chairman, <a href="#">50th Celebrations of services to Community Programme</a> , held at NIT Hamirpur w.e.f May 23-25, 2008
2007	12.	Co-ordinator, National Conference on “ <a href="#">Recent Advances in Innovative Materials</a> ” (RAIM-08), organised by Department of Applied Sciences and Humanities held at NIT Hamirpur w.e.f February16-17, 2008
	13.	Co-Cordinator, Short-term course on “ <a href="#">Current Inclinations in Bio-Technology</a> ” organized by Department of Applied Sciences and Humanities held at Hamirpurw.e.f December 11-15, 2007
	14.	Convenor, National Symposium on “ <a href="#">Nanomaterials Design</a> ” (NSNMD-07 ) organized by Advanced Material Science Research Centre, National Institute of Technology Hamirpur at Hamirpur on November 17,2007
2006	15.	Organised a short-term course on “ <a href="#">Post Harvest Technology</a> ”, Under Services to Community component of World Bank Funded Programme (TEQIP), at NIT Hamirpur w.e.f June 12-16, 2006
	16.	Co-ordinator, Workshop on “ <a href="#">Solid Waste Management</a> ” under National Environment Awareness Programme (NEAC- 2005-06) held at NIT Hamirpur, June 05, 2006
2005	17.	Co-ordinator, Workshop on “ <a href="#">Solid Waste Management</a> ” NIT Hamirpur,September 10, 2005
	18.	Organized a short-term course on “ <a href="#">Post Harvest Technology</a> ” , Solid Waste

		management and Plant Protection''under TEQIP, National Institute of Technology, Hamirpur June 13 – 17, 2005
2004	19.	Convener, Work-shop on “ <a href="#">Water – An Elixir of Life</a> ” under the aegis of National Environment Awareness Campaign [NEAC-2003-04], May 29-30, 2004, Sponsored by State Council for Science, Technology & Environment, Shimla 171 009, Himachal Pradesh.
2003	20.	Work-shop on “ <a href="#">Rain Water Harvesting through Water Shed Management Technology</a> ”, NIT, Hamirpur, May 18, 2003
2001	21.	Work-shop on “ <a href="#">Environment Beyond – 2000</a> ” (ENB-2000), held at NIT, Hamirpur, August 11, 2001
1998	22.	National Conference on “ <a href="#">Pollution Prevention and Control</a> ” (PPC-98), held at NIT, Hamirpur, December 23-24, 1998
1997	23.	Work-shop on “ <a href="#">Industrial Exploration of Herbal Species of Himalayan Origin</a> ” (IEHH-97), held at NIT, Hamirpur, November 08-09, 1997
1995	24.	Work-shop on “ <a href="#">Performance Appraisal and Development System</a> ” for Engineering Teachers, NIT, Hamirpur, May 26-27, 1995

## BOOKS/MONOGRAPHS PUBLISHED

Year	Sr. No.	Name of Books and Monographs Published
2015	1	Vijay Thakur and A.S.Singha, <b>Surface Modification of Biopolymers</b> . Wiley Publications, April, 2015
2014	2	Ashvinder Kumar, A.S.Singha, Manju Kumari Thakur and Vijay K Thakur, Lignocellulosic Polymer Composites: Processing , Characterisation and Properties“, ( Effect of Functionalisation on Functional properties of Cellulosic biofibers Reinforced Polymer Composites ), Wiley Publications Nov 2014
2013	3	A.S.Singha and Vijay K. Thakur, “ <a href="#">Biomass based Biocomposites</a> ”, Published bySmithers and Rapra Publishing House, October 24, 2013
2011	4	A.S.Singha, Vijay K Thakur and M.K Thakur “ <a href="#">Green Composites From Natural Cellulosic Fibers</a> : Eco-friendly green polymer materials, classification, Surface modification and novel applications of natural fibers LAP Lambert Academic Publishing, Germany , 2011
	5	A.S.Singha and Vijay K Thakur “ <a href="#">Engineering Research Updates</a> ”Book Chapter on “ <a href="#">Recent Advances in the Research of Nano materials for Engineering Applications</a> ” ( In Process )
	6	Vijay Thakur and A.S.Singha, “ <a href="#">Nanotechnology in Polymers</a> ”STUDIUM PRESS LLC, Houston, Texas 77072, USA 11
	7	A.S.Singha and V.K Thakur, “ <a href="#">Green Polymer Materials</a> ” STUDIUM PRESS LLC, Houston, Texas 77072, USA
	8	Tentatively Online book: Engineering Research UpdatesBook Chapter on “ <a href="#">Recent Advances in the Research of Nano materials for Engineering Applications</a> ”
	9	V.K Thakurand A.S.Singha “ <a href="#">Aerospace Engineering</a> ” Contributed Chapter on “ <a href="#">Carbon Nanotubes: Promising Material for Aerospace Applications</a> ”, Published by Nova Publishing House, USA
2010	10	A.D Sharma and A.S Singha “ <a href="#">Applied Chemistry-1</a> ”,Published by Hiteshi Publishers, Hamirpur ( 2010)
	11	Contributed Chapter on “ <a href="#">Flax As Potential fiber for Reinforcement In</a>



		Composites” in the book titled “Green Composites: Properties, Design & Life Cycle assessment” Published by NOVA Science Publications, NY USA( 2010 )
2008	12	Edited “Engineering Chemistry” Text Book Published by Tata McGraw-Hill, Publishing House New Delhi (2008)
	13	Completion Report on UGC Sponsored Major Research Project On “Preparation of Natural Fibre Graft Co-polymer Reinforced Composites Using Phenol formaldehyde as novel Matrix Resin” in Progress Submitted to UGC, New Delhi, April, 2008
	14	A.S.Singha “Synthesis of waste Biomass Reinforced Polymer Composites” Report Submitted to UGC New Delhi, 2008
1999	15	Prepared Monograph on “Applied Chemistry and Material Science Laboratory Manual”, 1999.
1998	16	Monograph on “Pollution Prevention and Control” December 1998
	17	Chemical and Radiation Induced Grafting onto Various Polymers” A Monograph submitted to Ministry of Human Resources under Grant “Centre of Excellence”, New Delhi; March 1998.
1997	18	Polymer Blend and Alloys, “Hand Book of Engineering Polymeric Materials” Marcel Dekker publications, Morganville, New-York (USA), pp 649-665 Edition 1997

## SPONSORED PROJECTS HANDLED

1. Research Project on “New Functional Biopolymer-Natural Fiber Composites From Rural Resources” Submitted to CSIR.
2. Research Project on “Surface modification of Natural Fibres and Their Utilization As Potential Reinforcing Material in Green Polymer Composites” Submitted to DST for Sanction.
3. UGC research project on “Functionalization of Psyllium through Graft Co-polymerization and Interpenetrating Net-work Formation to develop Novel Materials and Their Applications as Drug-delivery Devices” of worth Rs. 04, 19,600/-. Sanctioned vide letter No. F. No. 32-225/2006(SR) dated February 23, 2007.
4. UGC Sponsored Major Research Project On “Preparation of Natural Fibre Graft Co-p Composites Using Phenol formaldehyde as novel Matrix Resin” in Progress (06.16 Lacs
5. “Modernisation of Applied Chemistry Laboratory” (10.0 Lac).
6. Faculty Individual Research Project on Graft Co-polymerisation of various vinyl monomers onto Natural Fibres” (1.30 Lac).
7. Project on “Up-gradation of Material Science Laboratory” (7.5 Lac).
8. Project on “Up-gradation of Applied Chemistry Laboratory” (10.0 Lac).