

Date: 26.9.2015

## CURRICULUM – VITAE

Name: PRIYANKA THAKRAL

### Personal Information:

Date of Birth: 16<sup>th</sup> August 1988

Citizenship: INDIAN

Present Position: Ad-hoc Assistant Professor (SSN College, DU)

Official Address: Ad-hoc Assistant Professor (SSN College, DU) , New Delhi - 110036

Address for Correspondence: J-4/43, Flat No. 11, Khirki Extension, Malviya Nagar, New Delhi - 110017

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E-mail address: [pthakral16@yahoo.com](mailto:pthakral16@yahoo.com)

Date of Appointment in the College: 23<sup>rd</sup> July 2015

Total Teaching Experience:

Native Place: Delhi

### Education:

- ◆ PhD (Chemistry)- Department of Chemistry, University of Delhi, Delhi-110007, India. Thesis submitted – “In-Silico Investigations on Molecular Engineering of Electrically Conducting Copolymers using Particle Swarm Optimization Algorithm”.
- ◆ M.Sc Chemistry- Hansraj College, University of Delhi, Delhi-110007, India
  - Passing year-2011
  - Aggregate/ Percentage-(1539/2100)/ 73.3%
  - Specialization-Physical Chemistry
  - IV position in University of Delhi, Delhi-110007, India
- ◆ B.Sc (Hons.)Chemistry- Gargi College, University of Delhi, Delhi-110007, India
  - Passing Year-2009

- Aggregate/ Percentage-(1071/1350)/ 79.33%
- IV position in University of Delhi(South campus),Delhi-110007, India

Fellowship and Awards: (including convener/co-convener/member organizing committees etc for International and national conferences/workshops/seminars)

- ◆ Awarded ISCA Best Poster Presentation Award of the Indian Science Congress Association in the section of Chemical Sciences, 102<sup>nd</sup> ISC 2015.
- ◆ Awarded best poster prize at 6<sup>th</sup> Science Conclave 2013, IIIT-A, Allahabad, Uttar Pradesh, India, 8<sup>th</sup> -14<sup>th</sup> December 2013.
- ◆ Awarded first prize in paper presentation at CHEMAROMA, Chemical Society Festival, Gargi College, University of Delhi, India.
- ◆ Awarded Dr. C. K. Khurana Memorial Award (Gargi College, University of Delhi) for highest aggregate in academic session 2007-2008.
- ◆ Secured 88.48 Percentile in CAT 2008 (All India), India.
- ◆ Short term course in forensic science (Add On), Gargi College, University of Delhi, India.
- ◆ Certificate of participation in National Mathematics Olympiad and National Cyber & Informatics Olympiad, India.

### International /National Positions and/or Awards/ Fellowships

- ◆ PhD Grant- UGC-JRF/SRF, NET qualified, India.
- ◆ Book grant from the University of Delhi in annual examinations 2007-2008, B.Sc (Hons) Chemistry (II year) for securing III position in University of Delhi (south campus), India.
- ◆ Delhi Sanskrit academy scholarship for securing >95% in Sanskrit (language) in annual examinations, AISSE/ CBSE, India.

List of Students Awarded Ph.D./M/Phil.:.....

List of Students Pursuing Ph.D./M.Phil. :.....

List if Students guided for /M.Tech./B.Tech/B.Sc./M.Sc./B.A./M.A. Projects etc. ....

List of students guided for Summer projects.....

List of Students guided for Innovation Projects.....

REVIEWER INTERNATIONAL/National JOURNALS:.....

Member International/National Journal editorial Board etc.....

Research Projects/ Innovation Projects Undertaken :.....

(i) Completed

(ii) Ongoing

Research Interest: Theoretical chemistry, Electronic properties of conjugated organic polymers, Structure-property relationship in electrically conducting polymers, Computational chemistry

Computer Literacy: (Softwares etc. used /working knowledge)

- ◆ Operating systems Windows 95/98, Windows xp, Windows 7, Mac
- ◆ Computer languages BASIC, FORTRAN, C++, C
- ◆ Chemistry tools Chemdraw
- ◆ Working knowledge of Schrödinger's Materials Science Suite

Contribution in International Conferences/Seminars/Workshops :

- ◆ Participated in APA International conference on "Polymers: Vision & Innovations" organized by Asian Polymer Association & IIT-Delhi, Delhi, India, 19<sup>th</sup>- 21<sup>st</sup> February 2014.
- ◆ Participated in International conference on "Polymers on the Frontiers of Science & Technology" organized by Asian Polymer Association & UICET, Panjab University, Chandigarh, Panjab, India, 21<sup>th</sup>- 23<sup>rd</sup> February 2013.
- ◆ Participated in Indo-German "Workshop on Advanced Materials for Future Energy Requirements" organized by Department of Physics and Astrophysics, University of Delhi And Max Plank Institute of Polymer Research, Mainz, Germany, 29<sup>th</sup> November-1<sup>st</sup> December 2012.

Contribution in National Conferences Seminars/Workshops :

- ◆ Participated in 9<sup>th</sup> National Conference on Solid State Chemistry and Allied Areas, ISCAS 2015, University of Delhi, 8<sup>th</sup> – 10<sup>th</sup> May 2015.

- ◆ Participated in 102<sup>nd</sup> Indian Science Congress 2015, University of Mumbai, Mumbai, Maharashtra, 3<sup>rd</sup> – 7<sup>th</sup> January 2015.
- ◆ Participated at IDA Connect Workshops at Worlddidac India 2014.
- ◆ Participated in Workshop on Electronic Structure, Atomistic and Statistical Modeling in Chemistry, Materials and Life Sciences, organized by Department of Chemistry, University of Delhi, Royal Society of Chemistry London (North India Section) and Schrödinger GmbH, Bangalore, India, 8<sup>th</sup>-10<sup>th</sup> October 2014.
- ◆ Participated in Author Workshop conducted by Elsevier and University of Delhi, 22<sup>nd</sup> September 2014.
- ◆ Participated in 6<sup>th</sup> Science Conclave 2013 at IIIT-A, Allahabad, Uttar Pradesh, India, 8<sup>th</sup>-14<sup>th</sup> December 2013.
- ◆ Participated in the “Workshop on Information Literacy & Competency”, 17<sup>th</sup> January 2013, organized by Delhi University Library System, University of Delhi, India.
- ◆ Participated in session on “Intellectual Property Rights, Patent Filing and Commercialization of Innovations”, SGTB Khalsa College, University of Delhi, India, 16<sup>th</sup> October 2012.
- ◆ Participated in National Symposium on “Innovations in Polymers Towards Sustainability And Growth”, Bhaskaracharya College of Applied Sciences, University of Delhi, 2<sup>nd</sup> -3<sup>rd</sup> March 2012.
- ◆ Attended Summer Workshop at Gargi College, University of Delhi, India, under Star college scheme, 15<sup>th</sup> - 30<sup>th</sup> June 2009.
- ◆ Winter School on “Bringing Environmental Awareness and Understanding to Youth”, TERI University, Vasant Kunj, New Delhi, India, 27<sup>th</sup> -28<sup>th</sup> January 2009.
- ◆ National workshop on “Emerging issues in Chemical safety and management”, Toxics Link, Indian Habitat Centre, New Delhi, India, 8<sup>th</sup> August 2008.
- ◆ Participation and Organization of National Seminar on “Chemistry, Environment and your Challenges for Future”, Gargi College, University of Delhi, India, 27<sup>th</sup> -28<sup>th</sup> September 2007.

LIST OF PUBLICATION (with title of the papers/articles, list of authors along with journal title , year of publication, ISSN/ISBN No. and Impact factor) :

- ◆ Computational modeling of novel donor-acceptor ternary copolymers: Some interesting results

Priyanka Thakral & A K Bakhshi  
 Indian Journal of Chemistry  
 Vol 54A (2015) pp 1069-1075.

ISSN: 0975-0975(Online); 0376-4710(Print)

- ◆ Designing of novel Donor-Acceptor-Donor framework based low band gap copolymers using an artificial intelligence approach  
Priyanka Thakral & A K Bakhshi  
 Indian Journal of Chemistry  
 Vol 54A (2015) pp 9-19.  
 ISSN: 0975-0975(Online); 0376-4710(Print)
- ◆ Computational atomistic blueprinting of novel conducting copolymers using particle swarm optimization  
Priyanka Thakral & A K Bakhshi  
 Journal of Computer Aided Molecular Design  
 Vol 28 (2014) pp. 111-122  
 ISSN: 0920-654X (Print); 1573-4951 (Online)
- ◆ In-silico architecturing of novel hetero-aromatic bicyclic copolymers using particle swarm optimization algorithm  
Priyanka Thakral, Vinita Kapoor & A K Bakhshi  
 Indian Journal of Chemistry  
 Vol 53A (2014) pp. 9-16.  
 ISSN: 0975-0975(Online); 0376-4710(Print)
- ◆ In-silico engineering of intrinsically conducting copolymers using particle swarm optimization algorithm  
Priyanka Thakral, Vinita Arora, S Kukreti & A K Bakhshi  
 Indian Journal of Chemistry  
 Vol 52A (2013) pp. 317-326.  
 ISSN: 0975-0975(Online); 0376-4710(Print)

Presentations:

- ◆ Participation as Oral Presenter  
 “In-silico tailoring of novel low band gap quaternary copolymers: A metaheuristic modeling approach”  
Priyanka Thakral, S Kukreti & A K Bakhshi  
 9<sup>th</sup> National Conference on Solid State Chemistry and Allied Areas, ISCAS 2015, University of Delhi, 8<sup>th</sup> – 10<sup>th</sup> May 2015.  
 ISBN: 987-81-930724-4-8
- ◆ Participation as Poster Presenter (awarded ISCA best poster award)  
 “Computational modeling of novel class of donor-acceptor ternary copolymers: Some interesting results”  
Priyanka Thakral & A K Bakhshi  
 102<sup>nd</sup> Indian Science Congress 2015, University of Mumbai, Mumbai, Maharashtra, 3<sup>rd</sup> – 7<sup>th</sup> January 2015.

- ◆ Participation as Poster Presenter  
 “In-silico tailoring of novel copolymers: Some captivating results guiding synthesis”  
Priyanka Thakral & A K Bakhshi  
 APA International Conference on Polymers: Visions & Innovations Asian Polymer Association & IIT, Delhi, India, 19<sup>th</sup>- 21<sup>st</sup> February 2014.
- ◆ Participation as Poster Presenter (awarded best poster prize)  
 “Molecular crafting of novel conducting copolymers using intelligent simulations: Some capitalizing outcomes”  
Priyanka Thakral & A K Bakhshi  
 6<sup>th</sup> Science Conclave 2013, IIIT-A, Allahabad, Uttar Pradesh, India, 8<sup>th</sup> -14<sup>th</sup> December 2013.
- ◆ Participation as Poster Presenter  
 “Molecular engineering of novel customized copolymers using in-silico methodology”  
Priyanka Thakral & A K Bakhshi  
 International conference on Polymers on the Frontiers of Science & Technology, Asian Polymer Association & UICET, Panjab University, Chandigarh, Panjab, India, 21<sup>th</sup>- 23<sup>rd</sup> February 2013.

List of *Books/Monographs* Published (along with the Publisher’s name and ISBN No. and year of Publication)

- ◆ Book (Co-author)  
 Chemistry Lab Safety Manual, University of Delhi  
 First edition, August 2010  
 Copyright: © Institute of Lifelong Learning (ILLL), University of Delhi.  
 A K Bakhshi, Vimal Rarh, Priyanka Thakral  
 ISSN: 2349-154X

**Articles in Edited Books/Conference Proceedings/Book Chapter** Published( along with title of the book, publisher and ISBN No and year of publication).

- ◆ Molecular engineering of electrically conducting polymers using artificial intelligence methods (Chapter 12)  
 A K Bakhshi, Vinita Kapoor & Priyanka Thakral  
 Applications of Metaheuristics in Process Engineering  
 Edts Jayaraman Valadi , Patrick Siarry  
 Springer International Publishing

(2014) pp 289-314.  
Print ISBN: 987-3-319-06507-6

Journal Proceedings/ Journals Edited (with title of the journal , year of publication etc.)

Popular articles published / Articles published in newspapers etc.

Professional Association and Membership of Learned Bodies

- ◆ Life Member of Indian Science Congress Association.

Any Other information: