

# CURRICULUM VITAE

**Name:** Dr Charu Arora Chugh, M.Sc., Ph.D., FICCE, FICC

## PERSONAL DETAILS

Date of Birth: January 18, 1973

Position: Associate Professor, Department of Chemistry, Guru Ghasidas University, Koni, Bilaspur (CG).

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## ACADEMIC QUALIFICATIONS

- Ph.D. Chemistry (Bioactive natural products), Gurukul Kangri University, Harwar 2003
- Qualified NET Conducted by UGC/ CSIR
- M.Sc. Chemistry, IIT Roorkee (formerly University of Roorkee), 1995 securing first division.
- B. Sc., KLDVA Degree College Roorkee, Meerut University, 1992 securing first division.
- Intermediate, UP Board, Allahabad, 1989 securing first division.
- Matriculation, UP Board, Allahabad, 1987 with 78.2% marks and **National Award** and Scholarship by UP Govt. on the basis of merit.

## PROFESSIONAL DETAILS

- **13.5 years experience** in graduate/post-graduate teaching
- **Over 12 years experience** in research & development of botanical pesticides using suitable synergists, methods of extraction and isolation of bioactive natural products from plants, research experience in the field of Physical Chemistry (Nanomaterials, Kinetics, adsorption etc.)
- Expertise in **isolation, purification, characterization, analysis and technology scale up** leading to development of **bioactive natural products with pest control and other properties, study on synergistic effect.**

**PhD/M Phil/ M. Sc, Thesis supervision:** One Ph D student awarded, 2 in progress, 21 M Phil/ M. Sc. Students have completed under my guidance.

## AWARDS/ SCHOLARSHIPS

**SARC Gold Medal Award 2011** conferred by Scientific and Applied Research Centre, CCS University, Meerut for outstanding contribution in Chemistry Research.

**Best Paper Award**, 2011 in 5<sup>th</sup> International Congress of Chemistry and Environment (ICCE 2011) held at Port Dickson, Malaysia on May 27-29, 2011.

**FICCE Fellowship** conferred by **International Congress of Chemistry and Environment**, 2009.

FICC Fellowship conferred by Indian Council of Chemists, 2008.

**Award** worth Rs 10000/ from Punjab State Council of Science and Technology, Chandigarh, June 2011.

Received financial assistance of Rs 34000/ from **AICTE**, New Delhi to attend the International Congress of Chemistry and Environment held at Ubonratchthani, Thailand, during 21-23 Jan. 2010.

Award worth Rs 5000/ from Vice Chancellor, UP Technical University, Lucknow, 2009.

**Young Scientist Award**, 2008 by Society for Recent Development in Agriculture, SVBP University of Agriculture and Technology, Meerut for outstanding contributions in the field of Chemistry.

**Best Paper Award**, 2009 in 1<sup>st</sup> Indian Agricultural Scientist and Farmer's Congress on Technological Innovations for Enhancing Agriculture Production, Chaudhary Charan Singh University, Meerut, held on Oct 3-4, 2009.

**Senior Research Fellowship** awarded by Department of Biotechnology, Govt. of India, New Delhi (April 98-April 01).

**National award** and scholarship during Intermediate on the basis of High School merit by U.P. Government.

**Ekikrit Scholarship** during High School education on the basis of Ekikrit Scholarship exam conducted by U.P. State Govt.

**U.P. State Government Scholarship** during class 6<sup>th</sup> to class 8<sup>th</sup> on the basis of exam conducted in class 5<sup>th</sup>

## INTERNATIONAL VISITS

Visited Port Dickson, Malaysia, and presented research papers in V International Congress of Chemistry and Environment held at Thailand during May 2011.

Visited Singapore and attended Chemistry Workshop (Organised at the occasion of International Year of Chemistry) at Science Centre, Singapore, June 2011.

Visited Ubonratchthani University, Ubonratchthani, Thailand and Asian Institute of Technology, Bangkok, Thailand and presented research papers in IVth International Congress of Chemistry and Environment held at Thailand during Jan 2010.

## LIST OF PUBLICATIONS

### PATENTS

1. **Charu Arora** (2010) "A process for the preparation of herbal composition for the management of wet bubble of button mushroom" Application no. **968/DEL/2010**.
2. **Chugh C. A.** and Bharti D. (2012) "A process for the preparation for synergistic composition for the management of scurf and wilt of potato", Application no. **867/DEL/2012**.

### INTERNATIONAL JOURNALS: 23 papers published

#### National Journals: 06 papers

#### List of 5 recent research papers

1. **Charu Arora** and Dipti Bharti, Chemical characterization of antifungal constituents of *Emblica officinalis*, Allelopathy Journal, 2014 (in press).
2. V. K. Lamba, S. J. Engles, R.S. Sawhney, **C. Arora**, Charge transport through a molecular wire for flexible electronics, Molecular Physics, 2013 Vol. 111, No. 4, 517–523.
3. Dipti Bharti, Suman Gupta and **Charu Arora** Chugh, Antimicrobial activity of medicinal plants against some pathogenic microbial strains, International Journal of Phytomedicine, Vol. 5, No 2, 2013, 154-158.

4. Y.P. Naik, G A Ramarao, Ajita Banthiya, Deepika, and **Charu Arora**, Synthesis and characterization of nano-structured  $\text{Th}_{1-x}\text{Ce}_x\text{O}_2$  mixed oxide, Journal of Thermal Analysis and Calorimetry, Vol 107, 2011, 105-110.
5. Vijay Lamba, Suman J. Wilkinson and **Charu Arora**, Designing molecular devices by altering bond lengths, Journal of Molecular Modelling, Vol. 17, no 12, (2011) p. **3251-3255**.

**BOOKS/ BOOK CHAPTERS AND OTHER EDITED COMPILATIONS: 06**

**INVITED LECTURES: 02**

**PAPERS PRESENTED IN INTERNATIONAL/ NATIONAL CONFERENCES: 29**

**CONFERENCES/WORKSHOP/TRAINING ORGANISED**

1. National Workshop on Maintenance of Analytical, Electrical and Optical Instruments, Organised at Vidya Knowledge Park, Meerut in the capacity of Organising Secretary on 15-17 Dec 2009.
2. Member, Technical Advisory Committee in Second National Conference EDCT 2010 held on 14-15 May 2010 at Haryana College of Technology and Management (Kurukshetra University) Kaithal.
3. Joint Organising Secretary of National Congress on Emerging Trends in Agricultural Research to be held on 11-12 September 2010 at Project Directorate for Farming System Research, Modipuram, Meerut.
4. Organised Summer Training on “Kinetics study of Uranyl Oxalate with some Alkaline Earth Metal Oxalates” at BARC, Mumbai, 15 May 2008-30 June 2008.
5. Organised Summer Training on “Application and Maintenance of Sophisticated Instruments” WRIC, Mumbai, May-June 2010.

**Workshop/ Training Attended:12**