

Name Dr. Rupesh Hiranman Gaikwad

**Education:**

- Ph.D.** Chemistry, Institute of Chemical Technology (ICT), Mumbai, India (July 2014)
- PGD-CTM** (Post Graduate Diploma in chemical Technology Management), ICT, Mumbai, India (Apr. 2011)
- CSIR-NET** (Dec 2009)
- GATE** (2005, 2008, 2010)
- M.Sc.** Inorganic Chemistry, The Institute of Science, Mumbai, India (Jun 2004)
- B.Sc.** Chemistry, D. G. Ruparel College, Matunga, Mumbai, India (May 1999)

**Academic Positions**

- 1) Assistance Professor (from July 2015 – till now) at Department of Chemistry, Maharshi Dayanand College of Arts Science and Commerce, Parel, Mumbai, India, University of Mumbai.
- 2) Assistant Professor, Department of Chemistry, The Institute of Science, Mumbai 32 .(Aug.2014-Mar 2015)
- 3) Assistant Professor in Chemistry at Department of Science and Humanities, K. J. Somaiya College of Engineering, Vidyavihar, India (Jan.- May, 2014)
- 4) Visiting Teacher at Department of Chemistry, Institute of Chemical Technology (Formerly UDCT) for Sem-I.(2009- 2010)
- 5) Lecturer in Chemistry at Department of Chemistry, KET's V. G. Vaze College, Mulund, (Aug 2004 –Apr 2005)

**Research Experience:**

Ph.D. student with Prof. Dr. Radha V. Jayaram, Institute of Chemical Technology (Formerly UDCT), Matunga, Mumbai, India (Aug 2007 – Jul 2014)

- **Studies on nitrogen and phosphorus based extractants**

**Industrial:**

- Worked with Asian Paints Limited, Bhandup, Contract Manufacturing Department (CMD), Team leader (Jul 2005 – Dec 2005)
- Translation of Policy wording from English to Marathi of “*Future Generali India Insurance Company Limited*” for the year 2008.

**Research Interest:**

Ligand synthesis, solvent extraction, radiochemical separations, neutron activation analysis, waste treatment, green and sustainable chemistry, catalysis, lanthanide & actinide chemistry, phosphorous chemistry, transition metal chemistry, organometallic chemistry, bioinorganic chemistry, material chemistry, sensors, computational chemistry, crystallography, science communication.

**Educational/Teaching Interests:**

Multidisciplinary Education, Chemical Education, Educational Technology, Science Communication, Innovative Education, eLearning, Content Design & Analysis, Educational Management, Learning Theories & Educational Models, Web Tools for Learning and Educational Psychology,

M.Sc. -Inorganic chemistry (SEM-III & IV)

B.Sc. – Inorganic Chemistry (SEM I, II, III, IV, V and VI)

**Fellowships, Awards and Professional affiliations:**

- 1) Fellow of Indian Chemical Society, India
- 2) Member of Royal Society of Chemistry, (London),
- 3) Member of American Chemical Society (USA)
- 4) Member of Division of Nuclear Chemistry and Technology-American Chemical Society
- 5) Life Member of Society for Materials Chemistry. India
- 6) Member of Public Communication of Science and Technology, (PCST) Australia
- 7) Member of Indian Nuclear Society, India
- 8) Member of Science Forum for Advanced Technology founded by DAE, India
- 9) Member of Society for Chemistry and Industry, London

- 10) Member of Indian Science Fiction Writers Association
- 11) Member of standing committee of Marathi Vidnyan Parishad
- 12) Executive committee member of National Centre for Science communicators (2022-2025)
- 13) Executive committee member of Indian Chemical Society, Mumbai Branch. (2022-2025)
- 14) Executive committee member of "Association of Separation Scientist and Technologist"  
BARC, India (2016-19, 2019-22, 2022-25)
- 15) Elected as Indian representative on Board of Directors (Member-At-Large) of "International Youth Nuclear Congress" USA (2010-12)
- 16) Recipient of "Bombay Technologist Best Post Graduate Student Award" for the year 2012 -13 at Institute of Chemical Technology.
- 17) Awarded with Certificate of Excellence in the field of Education in 2012 by Rotary Club of Ulhasnagar East.
- 18) Awarded "Shri. G. M. Abhyankar Research Presentation Award" instituted in the Institute of Chemical Technology, for the year 2011-12 to attend *4th International conference on the Chemistry and Physics of the Transactinide Elements," Sochi, Russia, September, 5-11, 2011*, organized by Flerov Laboratory of Nuclear Reactions (JINR, Dubna), Russia
- 19) Awarded "Shri. G. M. Abhyankar Research Presentation Award" instituted in the Institute of Chemical Technology, for the year 2010-11 to attend "International Youth Nuclear Congress 2010", Cape Town, South Africa, July, 12-18, 2010, organized by The International Youth Nuclear Congress (IYNC) and the South African Young Nuclear Professionals Society (SAYNPS)
- 20) Awarded Senior Research Fellowship (SRF) by Indira Gandhi Centre for Atomic Research (IGCAR), Kalappakam, (August 2009 to October 2011 & April 2012 to March 2013)
- 21) Awarded Junior Research Fellowship (JRF) by Indira Gandhi Centre for Atomic Research (IGCAR), Kalappakam, (August 2007 to July 2009)

### **Conference presentation**

#### **Invited talks:**

*"Role of Nuclear Science in Agricultural Biodiversity"* at The National Conference on Conservation of Biodiversity, organized by National Centre for Science Communicators and Director, Vigyan Prasar, New Delhi, at Indian Institute of Science Bangalore, India on November 20-21, 2010.

#### **Oral Presentations:**

- 1) “*Synthesis of structurally hindered beta keto esters using DBU/Libr as a novel catalyst*” Gaikwad R. H. and Jayaram R. V. (OO-20) Oral presentation at the XXXIV Annual Conference of the Indian Council of Chemists going to be held at Department of Chemistry, Department of Chemistry, UKA Tarsadia University, Bardoli, Surat on 26-28 Dec., 2015.
- 2) “*Asymmetric phosphates as novel extractants in nuclear fuel processing.*” Jayaram, Radha V.; Gaikwad, Rupesh H. (Track 4, session 4.4, pg. no. 23)) presented as Oral presentation at the “International Youth Nuclear Congress 2010”, Cape Town, South Africa, July, 12-18, 2010, organized by The International Youth Nuclear Congress (IYNC) and the South African Young Nuclear Professionals Society (SAYNPS).

#### **Poster Presentations:**

*1) Unsymmetrical phosphate as extractant for the extraction of nitric acid'.*

*Rupesh H. Gaikwad at DAE BRNS symposium on Emerging Trends in Separation Science and Technology (SESTEC 2016), IIT Guwahati, India, May 17-10, 2017.*

*2) Studies on physico-chemical properties of unsymmetrical phosphates as an alternative to Tributyl phosphate (TBP) for nuclear fuel processing."*

*Rupesh H. Gaikwad and Radha V. Jayaram (Pg. No. 60) at 4th International conference on the Chemistry and Physics of the Transactinide Elements," Sochi, Russia, September, 5-11, 2011, organized by Flerov Laboratory of Nuclear Reactions (JINR, Dubna), Russia.*

*3) “Instrumental Neutron Activation Analysis of Lanthanum Employing  $^{252}\text{Cf}$  as a Thermal Neutron Source”*

*R. H. Gaikwad and Z.R. Turel, (A-61) “20<sup>th</sup> Conference of Indian Council of Chemists”, at Mysore University, December 22-24, 2001.*

*4) “ Solvent Extraction and Radiochemical Separation of Zn(II) and Hg(II) ”*

*C. V. Dandekar, R. H. Gaikwad and Z.R. Turel, (RAC-14), Proceedings of Nuclear and Radiochemistry Symposia, NUCAR – 2001 at Department of Chemistry, University of Pune, February 7 -10, 2001, India*

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