PRITHA G. ROY, Ph.D.,
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Summary: Teaching and Research at world-class institutions, including diverse levels of academia and broad segments of industry

- Dedicated, enthusiastic, and dynamic individual with strong experience in solving real-world problems using techniques learnt during research at university
- Recognized for bringing new techniques for teaching complex concepts in classroom and laboratory
- Experienced in teaching Physical Chemistry, Quantitative Analysis, General Chemistry, and General Science

TEACHING EXPERIENCE

2015 – Present: George Mason University

Adjunct Faculty/Term Assistant Professor	● Responsible for teaching College Chemistry I and II Lab and Lecture, Organic Chemistry I Lab, Elementary Quantitative Analysis Lecture and Lab, Physical Chemistry Lab, and Instrumental Chemistry, Graduate Course in Physical Chemistry Lecture ● Have been teaching lecture classes of about 100+ registered students ● Mentoring students – chemistry majors

2013 – 2016: Northern Virginia Community College

Adjunct Faculty	● Responsible for teaching College Chemistry I and II ● Teaching lecture and laboratory

2007 – 2013: Nobel Learning Communities/Merryhill School, CA/Chesterbrook Academy, VA

Lead Science and Technology Teacher	● Responsible for teaching Earth Science, Life Science, Physical Science ● Implemented concept of flipped class rooms and inclusion of technology in teaching science ● Introduced novel techniques for STEM education across the Nobel Learning's nationwide school system

1998 – 2004: Intel Corporation, Instructor at Intel University

Intel University	• Responsible for teaching IP awareness classes to engineers • Trained 500+ engineers on IP secure processes, data handling, vendor interactions thereby creating IP awareness in the engineering community and preventing Intel IP leak

1984 - 1991: Univ. Of Illinois, Urbana-Champaign

Teaching	● Teaching assistant for graduate and undergraduate level Physical Chemistry courses ● Prepared course material, lectured classes, graded assignments and exams

EDUCATION

July 1991	Ph.D. in Physical Chemistry, University of Illinois, Urbana-Champaign
May 1984	MS in Physical Chemistry, Indian Institute of Technology, Kharagpur
May 1982	BS in Chemistry, Indian Institute of Technology, Kharagpur

AWARDS, RECOGNITIONS, AND PROFESSIONAL ACTIVITIES

- **Teacher of Distinction, GMU 2018**
- **Outstanding Service as an Adjunct Faculty, GMU 2016**
- **RAFT (Resource Area for Teachers) Award for guiding students in winning Synopsys Championship projects (http://www.raft.net/news/pr/2012/04/)**
- **Local Recognition Award at Intel for establishing successful audit process**
- Member, Organizing Committee, IEEE VLSI Test Symposium., 1993 - present.
- Member of IEEE, AOCS, ACS

SELECTED LIST OF PUBLICATIONS AND PRESENTATIONS

1. Ume Tahir, Abul Hussam, and Pritha G. Roy, Equilibrium headspace gas chromatographic study of thermodynamics of perfume human serum albumin interactions, GMU, 2019
2. Mosissa Fayissa and Pritha G. Roy, OER Grant Proposal for Physical Chemistry I Lab, 2018
3. Suzanne Slayden and Pritha G. Roy, OER Grant Proposal for Organic Chemistry Lab, 2016
4. Pritha G Roy, A rational critique of US Education system, Shanghai, China, 2015
5. Jean Lewis and Pritha G Roy, Converging Physical Sciences and Technology, NOVA Adjunct Faculty Conference, 2015
6. Ahmed Benhusen and Pritha G Roy, Promise of Nanotechnology – Merging Nanotechnology and STEM, Power Up your Pedagogy Conference, NOVA, 2015
7. Pritha G Roy, Change Control Plan, Intel Internal Publication, 2003.
8. Pritha G Roy, STTD Module Qualification Plan, Intel Internal Publication, 2002.
9. Manpreet Khaira, Steve Otto, Pritha G. Roy, SCL Technology Brief, Intel Internal publication, 1999.
10. Pritha G. Roy, Manpreet Khaira, Medini Singh, Technology Maturity Model, Intel Internal Publication 1998.
11. 15 Proprietary Technical Reports on Fragrance Interactions with various Consumer Products, Firmenich Inc.
12. Monograph on Bleaches and Bleach Activators, Firmenich Inc.
13. 3 Proprietary Technical Reports of Detergents, Surfactants, Fabric Softeners, Procter and Gamble, 1992-93.
14. Pritha Gangopadhyay and James M. Lisy, "A Novel Target Manipulation Technique used in Generating Bare Metal Cluster Ions for Catalytic Research", *Rev. Sci. Instrum.*, **62**, p502, Feb. 1991.
15. Pritha Gangopadhyay and James M. Lisy, "Metal Cluster Generation", *International Symposium on Small Particles and Inorganic Clusters* (ISSPIC5), 1990, Konstanz, Germany.
16. Pritha Gangopadhyay and James M. Lisy, "Generation and Analysis of Metal Clusters" Invited Presentation at Amoco Research Laboratory Symposium, 1990, Naperville, Illinois.