

COACH Workshop

Professional Career Development Empowering Women in Africa to be Leaders in Science and Technology through Career Advancement Opportunities

At 11th African Materials Research Society Conference
Dakar, Senegal, December 10-15, 2022

Organizers : Pushpa Murthy, Michigan University, USA
Priscilla Lewis, COACH, Oregon University, USA

Co-organizers : XXX, University Cheikh Anna Diop of Dakar, Senegal
Abdelaziz El Jazouli, University Hassan II of Casablanca,
Morocco

Date and time : Saturday, 10 December 2022 (9:00-12:30 and 14:00-16:00)

Venue : University of Cheikh Anna Diop, Dakar, Senegal

Participants : All interested participants welcome, women and men

Presentation and description of the workshop:

Following the success of the previous COACH workshops organized in several African countries (South Africa 2011, Cameroon 2011, Mozambique 2012, Kenya 2013, Morocco 2013 & 2014, Tunisia 2013, 2015 & 2017, Namibia 2015, Algeria 2013 & 2016, Rwanda 2016 & 2018 & Ghana 2019), another workshop on **Professional Career Development** will be organized in Senegal, December 10, 2022, at the 11th African MRS Conference to be held in Dakar, Senegal, December 10-15, 2022. Three modules are scheduled :

1- Career Launch and Acceleration : Seeking and starting that first job as a scientist or engineer is a time of great transition and uncertainly. This workshop provides techniques necessary for an effective career launch into the job that best fits your skills and interests. This workshop module will help position you to be most effective in finding and applying for a variety of job positions, developing a tailored CV for the position and being an effective communicator in the interview whether it is by phone, web-based or in person. Additional topics include effective communication methods for teaching and research presentations, importance of network building and finding a

mentor, and developing a professional internet presence.

2. Selling Your Science: The Art of Effective Proposal Writing : This module provides training in effective techniques for writing proposals to gain research support for a scientific or engineering project. Topics include identifying the priorities of the agency or program solicitation, determining criteria for assessment and writing to the criteria, developing a format for the proposal following known guidelines, identifying the objectives of the research project and why anyone should care, discussing examples of successful proposal formats, developing a budget and cost assessment, interacting with program officers and agencies, and developing research partnerships.

3. Publishing Research Results in Peer Reviewed Journals : This module provides advice and training on publishing scientific and technical results in peer-reviewed English language journals. . Topics include publication and review process for many journals, organizing a paper, determining when and where to publish results, identifying data to include in the publication and organizing the material, and working with editors and on-line submissions and responding to reviews.

These modules will be presented by Profs Pushpa Murthy & Abdelaziz El Jazouli who have extensive experience in assisting researchers and students in building strong careers in science and engineering.

Workshop Agenda:

Time	Title / Facilitator
08:45- 09:00	Welcoming Remarks and Introduction of the Workshop
09:00- 10:30	Career Launch and Acceleration Pushpa Murthy
10:30 - 11:00	Coffee Break
11:00 - 12:30	Selling Your Science: The Art of Effective Proposal Writing Pushpa Murthy
12:30 - 14:00	Lunch Break
14:00 - 15:30	Publishing Research Results in Peer Reviewed Journals Abdelaziz El Jazouli
15:30 - 16:00	Concluding Remarks

Biography:

- Pushpalatha Murthy, Emeritus Dean and Professor, Graduate School

Dr. Murthy has served as Associate Provost and Dean of the Graduate School at Michigan Tech since June 2016. Prior to that, Murthy was Michigan Tech's Associate Dean of the Graduate School.

Dr. Murthy joined the Department of Chemistry at Michigan Tech in 1985, following industrial work at Stauffer Chemicals and postdoctoral work at the University of Michigan. Her field of research is in bioorganic chemistry/biochemistry. She has overseen over 35 PhD and MS students during her career at Michigan Tech. Murthy served as Chemistry Department Chair from 2000-2004, and was Director of the Michigan Tech Women in Science and Engineering group (WISE) from 2007-2012. Her work with WISE culminated in her receiving the Michigan Tech Faculty Distinguished Service Award in 2011 for significant contributions to issues related to improving gender equality on campus.

Dr. Murthy serves on the advisory board of the organization *COACH International*, a grass-roots organization that is working to increase the number and career success of women scientists and engineers through innovative programs and strategies. She conducts workshops around the world, sharing best practices and training women scientists on how to address career issues that can impede their progress in STEM careers.

Dr. Murthy is active on the Council of Graduate Schools, a member of the editorial board of the journal *Protein Expression and Purification*, and active in numerous efforts to enhance the career success of women and other underrepresented STEM groups. She brings her knowledge, experience, and passion to her current mission of growing and supporting graduate education at Michigan Tech.

- Abdelaziz El Jazouli:

Abdelaziz El Jazouli is a Professor of Chemistry and Materials Science, at Hassan II University of Casablanca, Morocco (<https://scholar.google.com/citations?user=0nr9YOYAAAAJ&hl=en>, <https://www.medjchem.com/public/journals/1/cv/cveljazouli21.pdf>). He obtained his first thesis in Solid State Chemistry (3rd Cycle Doctorate) at University Mohamed V, in Rabat-Morocco, in 1981 and his PhD in Materials Science (Doctorat d'Etat Es Sciences), at University of Bordeaux, in France, in 1986. His research concerns the synthesis, structural characterization and properties of inorganic materials phosphates in both crystalline and vitreous forms. He published over 90 papers in peer-reviewed journals and contributed more than 180 communications at national and international meetings. He supervised several PhD and Master students. Abdelaziz is founder and active member of several scientific societies and networks. He organized several international meetings in the field of solid state chemistry, crystallography, materials science, glasses and phosphates. He is the associate editor of the Mediterranean Journal of Chemistry for the Inorganic Chemistry / Materials Science section.