*DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE*

*SEMINAR SERIES*

*FALL 2023*

***PAST GUEST SPEAKERS***

**September 13**

Dr. Junmin Peng

Full Professor

St. Jude Children’s Research Hospital

Memphis, TN

TOPIC

Mass Spectrometry-Based Proteomics: Advancements in Technology and Biomedical Applications

**September 20**

Dr. George Jackson

Chief Forensic Toxicologist

NJ Office of the Chief Medical Examiner

Newark, NJ

TOPIC

The History and Evolution of Toxicology

**September 27**

Dr. Paul Westerhoff, Ph.D., PE, BCEE, NAE

Regents Professor & Fulton Chair of Environmental Engineering

Arizona State University

Tempe, AZ

TOPIC

**Wastewater effluents impact PFAS concentrations at Drinking water treatment plants:**

*Sucralose and Predicted De facto Wastewater Reuse Levels Correlate with PFAS Levels in Surface Waters*

**October 4**

Ravi Kalyanaraman, Ph.D.

Scientific Director

Forensics and Innovative Technologies (FIT)

Bristol Myers Squibb

New Brunswick, NJ

TOPIC

Pharmaceutical Forensics in Safe Manufacturing and Supply

**October 11**

Joshua C. Worch

Assistant Professor

Department of Chemistry

Virginia Tech

Blacksburg, VA

TOPIC

Closed-loop photopolymer resins from dynamic sulfur chemistries for sustainable additive manufacturing

**October 18**

Jiajue Chai, Ph.D.

Assistant Professor

State University of New York College of Environmental Science and Forestry

(SUNY ESF)

Syracuse, NY

TOPIC

Isotopically quantifying the fates of atmospheric reactive nitrogen species

**October 25**

Joe Adserias-Garriga, DDS. PhD, D-ABFO

Assistant Professor

Department of Applied Forensic Sciences

Mercyhurst University

Erie, Pennsylvania

TOPIC

A new approach of Postmortem Interval Estimation through Microbial Community Changes

**November 1**

Dr. Fangqun Yu

State University of New York at Albany

Atmospheric Sciences Research Center

Albany, NY

TOPIC

Climate intervention through stratospheric aerosol injection: Research needs, environmental consequences, and political challenges

**November 15**

Philip Demokritou, PhD
Henry Rutgers Chair and Professor in Nanoscience and Environmental Bioengineering

School of Public Health & School of Engineering, Rutgers University

Adjunct Professor, Harvard University

Co-Editor in Chief, Nano-IMPACT (ELSEVIER)

TOPIC

Sustainable Nanotechnology: Bio-inspired, nature-derived, and non-toxic nanomaterials for agri-food applications and beyond

**November 29**

Dr. Stephen Previs

Sr Principal Scientist

Department of Quantitative Biosciences (Mass Spec & Biophysics)

Merck CO.

TOPIC

Using Stable Isotopes and Mass Spectrometry in Drug Invention: Studying the Activity of Metabolic Pathways

**December 6**

Ming Xian, PhD

Jesse H. Metcalf Professor

Chemistry Department

Brown University

Providence, RI

TOPIC

Chemical Tools for Understanding Reactive Sulfur Species

**December 13**

Dr. Paul Westerhoff, Ph.D., PE, BCEE, NAE

Regents Professor & Fulton Chair of Environmental Engineering

Arizona State University

Tempe, AZ

# TOPIC

**Wastewater effluents impact PFAS concentrations at Drinking water treatment plants:**

*Sucralose and Predicted De facto Wastewater Reuse Levels Correlate with PFAS Levels in Surface Waters*

*DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE*

*SEMINAR SERIES*

*SPRING 2024*

*PAST GUEST SPEAKERS*

**January 17**

Victoria M. Dominguez, PhD

Assistant Professor

Department of Anthropology

Lehman College

(CUNY) City University of NY

Biological Anthropology Faculty

Graduate Center and New York Consortium in Evolutionary Primatology (NYCEP)

New York, NY

TOPIC

Forensic Applications of Bone Microscopy

**January 24**

Dr. Rosiana Lagi

Senior Lecture in Education,

Education Discipline Coordinator and Deputy Head

School of Pacific Arts, Communication and Education

&

Mr. Apolosa Robaigau

Climate Change Post Graduate Scholar and

Environmental Science Graduate

The University of The South Pacific

Suva, Fiji Islands

TOPIC

Climate Adaptation: *Solesolevaki* – Vatutavui Watershed Restoration Story

**January 31**

Rupali Datta PhD

Professor
Department of Biological Sciences
Michigan Technological University
Houghton, MI

**TOPIC**

Phytotechnology for Sustainable Remediation of Lead

Biochemical Pathways Involved in Lead Tolerance and Detoxification in Vetiver Grass

**February 14**

Brooke W. Kammrath, Ph.D., ABC-GKE

Henry C. Lee Institute of Forensic Science

University of New Haven

West Haven, CT

**TOPIC**

Forensic Applications of Portable Spectroscopy

**February 21**

Stephanie Fiorenza, Ph.D.

Principal Scientist

Arcadis U.S., Inc.

Houston, TX

TOPIC

Management and Mitigation of PFAS Leaching from Concrete

**March 6**

Ogochukwu Y. Enekwizu, Ph.D.

Research Associate

Environmental and Climate Sciences Department

Brookhaven National Laboratory

Upton, NY

TOPIC

The Cloud Activation Properties of Fresh and Aged Black Carbon Particles from Biomass Burning

**March 20**

Feng Xiao

Associate Professor

Department Chemistry and Environmental Science

New Jersey Institute of Technology

Newark, NJ

TOPIC

Tackling PFAS in Water Infrastructure: Strategies for Treatment and Management in Water Systems

**March 27**

Dr. Qinghai Zhang

Associate Professor

The Scripps Research Institute

La Jolla, CA

TOPIC

Journeying through P-glycoprotein’s Drug Transport Pathway: A Closer Look

**April 3**

Dr. Ian Bourg

Associate Professor

Civil and Environmental Engineering

Princeton University

TOPIC

Molecular dynamics simulation predictions of the partitioning of PFAS between water, air, and mineral surfaces

**April 10**

Dr. David Lacy

Associate Professor

University at Buffalo

Buffalo, NY

TOPIC

The Chemistry of MnCl3Drug Transport Pathway: A Closer Look

**April 24**

Jeremy D. Semrau, PhD
Arthur F. Thurnau Professor

Professor, Civil and Environmental Engineering *and*Program in the Environment
The University of Michigan

TOPIC

Unexpected Implications and Applications of Methanotrophy