

## **PANEL: LEARNING FROM CAREER PATHS OF SIMULATION PRACTITIONERS**

Bahar Biller<sup>1</sup>, Tom Berg<sup>2</sup>, Nelson Alfaro Rivas<sup>3</sup>, Tzai-Shuen Chen<sup>4</sup>, and Rainer Dronzek<sup>5</sup>

<sup>1</sup>Applied AI and Modeling, SAS Institute, Cary, NC, USA

<sup>2</sup>Dept. of Industrial & Systems Engineering, The University of Tennessee-Knoxville, Knoxville, TN, USA

<sup>3</sup>MOSIMTEC, Herndon, VA, USA

<sup>4</sup>Bayer, Creve Coeur, MO, USA

<sup>5</sup>Simulation Modeling Services, LLC, Verona, WI, USA

### **ABSTRACT**

The goal of this session is to share panelists' career experiences and allow the audience to draw insights on their own career management.

### **AUTHOR BIOGRAPHIES**

**BAHAR BILLER** is a Principal Data Scientist at the Applied AI and Modeling division of the SAS Institute. In this role, she collaborates with clients, product managers, and researchers to improve the efficiency and resiliency of industrial supply chains and healthcare and life sciences operations. Her email address is [Bahar.Biller@sas.com](mailto:Bahar.Biller@sas.com).

**TOM BERG** is an Assistant Professor in the College of Nursing and holds an appointment in the Tickle College of Engineering. He has over 30 years of diverse technology experience in the government and private sectors. He has a Ph.D. in Systems Engineering from UTK. His professional experience has focused on transitioning technology from research to applied use, managing applied research and development programs and building university and private sector partnerships. His research interests focus on computer simulation of high-consequence complex systems. His email address is [tberg1@utk.edu](mailto:tberg1@utk.edu).

**NELSON ALFARO RIVAS** is a simulation consultant at MOSIMTEC with experience in the aerospace, agrochemical, retail, and public health industries. Nelson leverages his systems engineering knowledge to understand the unique interrelationships present in each customer's systems. As a consultant, Nelson asks deep questions that enable the delivery of solutions / recommendations that are based on accurate simulation results, statistical analysis, and mathematical modeling. Nelson has a BS of Mechanical Engineering from the University of Arizona and a MS of Applied Systems Engineering from Georgia Institute of Technology. His email address is [nelson@mosimtec.com](mailto:nelson@mosimtec.com).

**TZAI-SHUEN CHEN** is a Senior Data Scientist at the Decision Science Center of Excellence for Connected Virtual Systems at Bayer. In this role, he applies advanced analytics to solve various business problems in the Life Science fields of agriculture. Tzai-Sheun holds a Ph.D. in Economics from Washington University in St. Louis and an MA degree in Economics from National Taiwan University, and a BS degree in Biology/Biological Sciences from National Taiwan Normal University. His e-mail address is [tzai-shuen.chen@bayer.com](mailto:tzai-shuen.chen@bayer.com).

**RAINER DRONZEK** is the Managing Consultant of Simulation Modeling Services. His background includes field engineering in the oilfields of the Middle East, test & systems engineering on the Space Shuttle and Space Station programs at the Kennedy Space Center, and head of Operations Research at the McDonald's Innovation Center. His decades of simulation modeling work have been from several vantage points: an internal company resource, founder of a simulation consulting firm that served many different organizations and industries, and simulation software sales and business development. Rainer has a BS Electrical Engineering from Bradley University. His email address is [rainer@sim-model.com](mailto:rainer@sim-model.com).