



**University  
of Manitoba**



## **Canada Africa 4R Solution and Precision Nutrient Management – Online Series**

**Monday September 14 | 8:00 am – 10:00 am (EST)**

### **Moderator and Speakers Bios**



Ed Rege is Founder and CEO of ECI-Africa. He is also the Facilitator of the Online series. He is one of Africa's foremost practitioners in institutional development; strategic planning, design and implementation; facilitation of complex multi-stakeholder processes, including program development and implementation processes, leadership and management capacity building, and executive coaching and mentoring. He has over 35 years' experience in agriculture, having worked in different capacities – as university trainer, CGIAR researcher and science leader. Over the last 15 years, Ed has been pursuing his passion in Organizational Development focusing on leadership and management, building on his many years' experience in managing programs in complex global multi-institutional contexts. He is the founder and CEO of ECI-Africa and Emerge Africa. Ed holds a PhD in Genetics, M.S. in Animal Science, and BSc. in Agriculture. He

has also additional training in Organizational Development from various institutions. Prior to founding ECI-Africa, Ed was the Director of the Global Biotechnology Program of the International Livestock Research Institute (ILRI). Ed strongly believes that individual and institutional capacity (in both hard and soft skills) holds an important key to unlocking the performance of agriculture in Africa, and making the required transformation happen.



Since November 2016, Dr. Adnane Bargaz has been working for OCP Group as a researcher at the Direction of Research and Development (R&D), then as an assistant professor (seconded from OCP in July 2018) to the Mohammed VI Polytechnic University (UM6P) in Benguerir, Morocco. His main research interests are in the general field of plant science, particularly plant-microbe interactions with specific focus on plant belowground mechanisms likely responsible for nutrient use efficiency and abiotic stress tolerance. He conducts interdisciplinary research encompassing investigations on i) crop agro-physiology, mineral nutrient use efficiency and dynamics from the rhizosphere interface to plant aboveground ii) beneficial plant-microbe interactions with focus on P and N nutrition and iii) the evaluation of PGPR agro-physiologic potential as candidate bio-inoculants for a better nutrient eco-efficiency

and stress tolerance.

Prior to joining R&D - OCP Group and UM6P, Bargaz's research interests during his Postdoctoral<sup>α,β</sup> (2013-2016) and Phd<sup>γ</sup> (2008-2012) positions have focused on elucidating crop abiotic stress tolerance mechanisms and nutrient use efficiency in N<sub>2</sub> fixing grain legumes while focusing on the symbiotic and rhizosphere interfaces. He has also been interested in cereal-based cropping systems such as the intercropping "faba /soybeans – wheat system" under nutritional constraints and how rhizosphere/root heterogeneity can cope with while contributing to a stable yield.

**Current position:**

Assistant Professor

Mohammed VI Polytechnic University (Emails: [Adnane.bargaz@um6p.ma](mailto:Adnane.bargaz@um6p.ma) / [adnane.bargaz@ocpgroup.ma](mailto:adnane.bargaz@ocpgroup.ma))

**Previous positions:**

<sup>α</sup>Post-doctor (2013- 2016): Swedish U. Agricultural Sciences, Sweden.

<sup>β</sup>Post-doctor fellow (2014): University of Toronto at Scarborough,, Canada.

<sup>γ</sup>PhD (2012): Faculty of Sciences & Techniques, Marrakech, Morocco & SupAgro-INRAE, Montpellier, France.



Dr. Karamanos received his BSA from the University of Thessaloniki, Greece and his M.Sc. and Ph.D. in Soil Chemistry and Fertility from the University of Saskatchewan. He has taught at the University of Saskatchewan and McGill University, and has served as the Senior Research Agronomist with Esso Chemical Canada, Director of the Saskatchewan Soil Testing Laboratory and Enviro-Test Laboratories Saskatoon and Manager of Agronomy with Westco and Manager of Agronomic Solutions for Viterra. Dr. Karamanos is the Sr. Agronomist with Koch Fertilizer/Agronomic Services in Canada. He has participated in number of international projects in Greece, Zambia, India, North Korea and China through the International Atomic Energy Agency, the Food and Agriculture Organization of the United Nations or the Canadian International Development Agency. He was granted a Fellow and the Distinguished Agronomist award in the Canadian Society of Agronomy in 2013 and 2019, respectively, and

was inducted in the Saskatchewan Agricultural Hall of Fame in 2015.



Regis Chikowo is an agronomist with BSc and MPhil Soil Science degrees from University of Zimbabwe and PhD Agroecology and Farming Systems from Wageningen University. Regis is an Assistant Professor at Michigan State University and Agronomy Associate Professor at University of Zimbabwe. His interests are in the development of agro-ecology technologies for positive outcomes on smallholder farms in Africa. Life in tropical African soils is being squeezed as degradation depletes soil organic matter. Life restoration has to start with approaches that trap carbon on both cropped lands and the natural environment. Now is the time to act to halt vast farmlands from elapsing into states where application of inorganic fertilizers will become futile as SOC contents drop to below thresholds for any response to nutrient additions.

Over the past 8 years, he has coordinated an ambitious USAID funded Africa RISING project (Research in Sustainable Intensification for the Next Generation) in Malawi. He supervises graduate students to collect appropriate data that informs best bet approaches to keeping soils healthy, and thus handsome returns to fertilizer application.



Dr. Kent Martin is the lead agronomist for Shell Thiogro Technologies, focusing on development of Sulfur based fertilizer technologies and research design and implementation to better understand Sulfur fertilizer performance. With nearly a decade with Shell Thiogro Technologies, he has been a part of exciting technology development in the Sulphur fertilizer landscape. Prior to working with Shell Thiogro Technologies, Dr. Martin was a research and extension professor with Kansas State University focusing on nutrient management as well as other production technologies. His training stems from nutrient management and remote sensing as a M.S. student at Oklahoma State University as well as applied soil fertility at Kansas State University. While working toward his Ph.D at KSU, he managed the Kansas Soil Testing Laboratory, gaining valuable experience in soil, plant, and fertilizer testing.

Dr. Martin's work at Shell Thiogro Technologies has focused on work with co-granulation of products with Sulfur while working to achieve particle size that facilitates proper microbial oxidation and Sulfur availability. This work has allowed research studies to be conducted worldwide to evaluate product performance in numerous environments.