

Paul Clarke

Chief Technology Officer, Ocado

Title of the presentation:

A Tale of Disruption, Re-invention and Atoms

Short Bio:

Paul Clarke is Chief Technology Officer at Ocado, the world's largest online-only grocery retailer.

After joining Ocado in 2006, Paul initially worked on warehouse control systems and then joined the team designing Ocado's next

highly automated fulfilment centre. After establishing new teams for Simulation and Mobile development, Paul then co-wrote the first of Ocado's award winning mobile apps.

Ocado Technology, with its 1300 software engineers and other IT specialists, is responsible for building all the software and IT infrastructure that powers Ocado's end-to-end e-commerce, fulfilment and logistics platform.

Ocado are now busy signing deals with large bricks & mortar grocery retailers around the world who wish to use the Ocado Smart Platform to operate online grocery scalably and profitably.

Paul's current role includes exploring opportunities to use Ocado's technologies to disrupt other sectors and the technology vision and future proofing of the business. However he is also responsible for Ocado's technology relationships with government, universities and schools which includes their Code for Life online digital literacy programme.

Paul read Physics at Oxford University before then entering the computer industry. He has worked in software engineering, consultancy, interim management and a number of software start-ups.

In what little spare time he has alongside his work and family, Paul loves to invent and build stuff, design PCBs, write software and generally tinker.



Hiroaki Suga

Department of Chemistry, Graduate School of Science, The University of Tokyo, Japan

Title of the presentation:

Revolutionizing the discovery processes of de novo bioactive peptides and neobiologics

Short Bio:

Hiroaki Suga is a Professor of the Department of Chemistry, Graduate School of Science in the University of Tokyo. He was born in Okayama City, Japan in 1963.

He received his Bachelor of Engineering (1986) and Master of Engineering (1989)

from Okayama University, and Ph. D. in Chemistry (1994) from the Massachusetts Institute of Technology. After three years of post-doctoral work in Massachusetts General Hospital, he was appointed as a tenure-track Assistant Professor in the Department of Chemistry in the State University of New York (SUNY) at Buffalo (1997) and promoted to the tenured Associate Professor (2002). In 2003, he moved to the Research Center for Advanced Science and Technology in the University of Tokyo as an Associate Professor, and soon after he was promoted to Full Professor. In 2010, he changed his affiliation to the Department of Chemistry, Graduate School of Science. His research interests are in



the field of bioorganic chemistry, chemical biology and biotechnology related to RNA, translation, peptides and pseudo-natural products. He is the recipient of Akabori Memorial Award 2014 of Japanese Peptide Society, Max-Bergmann Gold Medal 2016, Nagoya Medal Silver 2017, and Vincent du Vigneaud Award 2019. He is also a founder of PeptiDream Inc. Tokyo, a publicly traded company in the Tokyo First Stock Exchange Market, which has many partnerships with pharmaceutical companies in worldwide, as well as a new startup of biologics, MiraBiologics.

Richard A. Johnson

CEO, Global Helix LLC / Chairman, OECD BIAC Technology Committee

Title of the presentation:

Cell-free, Yes; Society-free, No

Short bio:

Rick Johnson plays multiple policy strategy and thought leadership roles in advancing synthetic biology, emerging technologies, and innovative approaches for science, technology, and innovation (STI). He is the Chair, Engineering Biology Research Consortium (EBRC) Policy & International Working Group and a Board Director of the BioBricks Foundation, the EBRC, and the iGEM Foundation. Johnson is the Chairman of the OECD/BIAC Science, Technology & Innovation Committee, and a member of several public-private research consortia and university oversight boards.



He has been a member of the (U.S.) National Academy of Sciences (NAS) Board on Life Sciences, numerous NAS committees and science-security panels, and the NAS Synthetic Biology Forum. He also was a member of the recent U.S. national strategy review panel for the future of the National Academies and STI policy, Chair of the NAS bioeconomy workshops, and Co-Chair of the NAS Six Academies Synthetic Biology Initiative among the NAS, UK Royal Society and the Chinese Academy of Sciences.

CEO, Global Helix LLC- a strategy and thought leadership firm; and Senior Partner (Emeritus), Arnold & Porter. His degrees are in law and science from Yale Law (Editor, *Yale Law Journal*), MIT (National Science Foundation National Fellow and MIT Distinguished Graduate Fellow), and Brown (highest honors, undergraduate).

Carmen de Vicente Coll

Directorate-General for Research & Innovation, European Commission

Title of the presentation:

Presentation by EU representative about Horizon Europe

Short bio:

Carmen de Vicente Coll graduated in Biology in the Universidad de Navarra, Spain. She has an MSc from the Mediterranean



Agronomic Institute of Zaragoza (Spain) and a PhD from Cornell University (USA) both in Plant Genetics. Carmen has R&D experience as a program leader, project manager and with the European Commission as a policy officer. She has worked in the public sector (Spain), the private sector (France) and the international public sector with a worldwide mandate. She joined the European Commission in 2014 in DG RTD (Directorate Prosperity, Unit Sustainable Industry Systems), in H2020 in charge of cutting-edge biotechnologies. Her main interests relate to the new biotechnologies and their governance, science communication and international cooperation.

Barbara Ercolano

Excellence Cluster 'Origins', Ludwig-Maximilians-Universitaet
University Observatory Munich (USM)



Title of the presentation:

Planets and other habitats for molecules and life

Short Bio:

Barbara Ercolano is Professor for Theoretical Astrophysics at the University Observatory Muenchen since December 2010. She holds a doctoral degree from University College London. She successively held a research position at the Harvard-Smithsonian Center for Astrophysics in Cambridge (MA, USA), an STFC Advanced Fellowship at the Institute of Astronomy of Cambridge University and University College London (UK), and was for a brief period a lecturer at the University of Exeter (UK).

Research interests:

- Computational Astrophysics
- Radiative Transfer
- Planet and Star Formation
- Planet Formation

Kate Adamala

University of Minnesota



Title of the presentation:

International community of Build-a-Cell, and activities in the United States

Short Bio:

Kate Adamala is an assistant professor at the University of Minnesota. Her research aims at understanding chemical principles of biology, using artificial cells to create new tools for bioengineering, drug development, and basic research. The interests of the lab span questions from the origin and earliest evolution of life, using synthetic biology to colonize space, to the future of biotechnology and medicine. Lab info: protobiology.org. Kate is a co-founder of the synthetic cell therapeutics startup Synlife, and one of the leaders of the international Build-a-Cell community.