



Andrew deMello

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Andrew is currently Professor of Biochemical Engineering in the Department of Chemistry and Applied Biosciences at ETH Zurich, and until October 2020 was Institute Chair. Prior to his arrival in Zurich, he was Professor of Chemical Nanosciences and Head of the Nanostructured Materials and Devices Section in the Chemistry Department at Imperial College London. He obtained a 1st Class Degree in Chemistry and PhD in Molecular Photophysics from Imperial College London in 1995 and subsequently held a Postdoctoral Fellowship in the Department of Chemistry at UC Berkeley, where he co-developed the first microfluidic system for rapid and integrated DNA analysis.

Andrew has made scientific contributions in diverse areas, but is best known for his work in the fields of microfluidics, nanotechnology, bioanalytical chemistry and optical spectroscopy. His group has pioneered the use of microfluidic systems for small molecule chemistry and nanomaterial synthesis, and in recent years has been at the forefront of developments in droplet-based microfluidics for ultra-high-throughput biological experimentation.

Andrew has given approximately 400 invited lectures at conferences and universities in North America, Europe, Africa and Asia (including 100 plenary or keynote lectures), has published over 390 papers in refereed journals, and co-authored two books. He currently sits on the Editorial Boards of ACS Sensors, The Journal of Flow Chemistry, Advanced Materials Technology and Chemistry Europe. He is also co-founder of two spin out companies that commercialize microfluidic technologies.

Science originating from the deMello group has been recognized through multiple awards, including the 2002 SAC Silver Medal (Royal Society of Chemistry), the 2009 Clifford Paterson Medal (Royal Society), the 2009 Corday Morgan Medal (Royal Society of Chemistry), the 2012 Pioneers of Miniaturization Lectureship (Royal Society of Chemistry), the 2020 Advances in Measurement Science Lectureship Award (American Chemical Society), the 2021 Simon- Widmer Award (Swiss Chemical Society) and a 2021 Mendel Lectureship (Academy of Sciences of the Czech Republic)