

## J. Michael Ramsey - Biography

J. Michael Ramsey received his BS in chemistry from Bowling Green State University in 1974 and his PhD in chemistry from Indiana University in 1979 under the direction of Prof. Gary M. Hieftje. After completion of graduate school he was awarded a Eugene P. Wigner Distinguished Postdoctoral Fellowship at Oak Ridge National Laboratory (ORNL). He became a permanent staff member at ORNL in 1981 and was promoted through the ranks to the highest scientific position of Corporate Research Fellow in 1997.

Dr. Ramsey moved to the University of North Carolina at Chapel Hill in 2004 where he holds the Minnie N. Goldby Distinguished Professor of Chemistry Chair. In addition to his appointment in the Department of Chemistry, he is also a member of the faculty in the Department of Biomedical Engineering and the Carolina Center for Genome Sciences in the UNC-CH School of Medicine and a member of the Institute of Advanced Materials, Nanoscience, and Technology. His present research interests include microfabricated chemical instrumentation, micro- and nanofluidics, single molecule DNA sequencing, single cell assays and highly miniaturized mass spectrometry.

Professor Ramsey has published over 200 papers and presented over 450 invited, plenary, or named lectures. In addition, he has over 70 issued and 20 pending patents. More than 60 postdoctoral appointees have been trained in his laboratories at ORNL and UNC. Professor Ramsey is a Fellow of the Optical Society of America and the American Institute for Medical and Biological Engineering, a recipient of a senior Alexander von Humboldt Award, the Frederick Capillary Electrophoresis Award, the A. J. P. Martin Gold Medal for Separation Science, the Marcel J.E. Golay Award in Capillary Chromatography, the Jacob Heskell Gabbay Award in Biotechnology and Medicine, the American Chemical Society Division of Analytical Chemistry Award in Chemical Instrumentation, the Pittsburgh Analytical Chemistry Award and the American Chemical Society Award in Chromatography. In addition, he received an R&D 100 Award in 1996 for Lab-on-a-Chip technology and in 2003 for  $\mu$ TrapMS, a mass spectrometer that operates with sub-millimeter fundamental length scales. Moreover, the Lab-on-a-Chip technology was selected as one of the "Top 40 Technologies" over the 36-year history of the R&D 100 Awards in 2001.

Professor Ramsey has also won several ORNL technical achievement awards for his research activities including being named Oak Ridge National Laboratory "Scientist of the Year" and a Lockheed Martin Corporation NOVA Award winner in 1996, the Battelle Distinguished Inventor Award in 2003, and a Federal Laboratory Consortium Excellence in Technology Transfer Award in 2004. Professor Ramsey is presently an Editorial Advisor to *Assay and Drug Development Technologies*, *Combinatorial Chemistry & High Throughput Screening*, and *Biomedical Microdevices*. He is a past member of the Editorial Advisory Board of the *Chromatographia*, *Journal of Proteome Research*, *Analytical Chemistry*, *Electrophoresis*, *Spectrochimica Acta Reviews* and the Instrumentation Advisory Board for *Analytical Chemistry* and past Associate Editor for the *Journal of Microcolumn Separations*.

Professor Ramsey's scientific community contributions include chairing the 18th International Symposium on Microscale BioSeparations (MSB 2005), the Fifth International Conference on Miniaturized Chemical and Biochemical Analysis Systems ( $\mu$ TAS '01), and the 1999 Gordon Research Conference on Analytical Chemistry, and he is past chair of the ACS Division of Analytical Chemistry. In addition, he is the scientific founder of Caliper Life Sciences, Corp., the leading supplier of commercial Lab-on-a-Chip products.