



ADAM HELLER

On the Occasion of Adam Heller's 80th Birthday

A special symposium honoring ADAM HELLER on his 80th birthday will be held at the 224th ECS Meeting in San Francisco, October 27-November 1, 2013. A member of the U. S. National Academy of Engineering and recipient of numerous awards including the ECS Vittorio de Nora Award, Dr. Heller's work spans a range of technologies, from the lithium thionyl chloride battery to nanoliter glucose assays for diabetes care. A series of 29 invited talks over three days will celebrate Dr. Heller's contributions. Notable speakers include Arthur Nozik, recipient of the 2013 ECS Europe Section Heinz Gerischer Award, and Kazuhito Hashimoto of the University of Tokyo. A celebratory dinner is planned for the evening of Monday, Oct. 28. For details on the symposium, visit <https://ecs.confex.com/ecs/224/webprogram/symposium2271.html>.

David Lockwood Receives Medal for Lifetime Achievement in Physics



DAVID LOCKWOOD (left) received the 2013 CAP Medal for Lifetime Achievement in Physics from GABOR KUNSTATTER, President of the Canadian Association of Physicists.

DAVID J. LOCKWOOD of the National Research Council Canada, a member of the ECS Luminescence and Display Division and an ECS Fellow, received the 2013 Medal for Lifetime Achievement in Physics of the Canadian Association of Physicists (CAP) in May. This CAP Medal is the highest honor that a Canadian physicist can receive and is awarded on the basis of distinguished service to physics over an extended period of time and/or recent outstanding achievement, and has been awarded annually since 1956. He was presented with the award at the CAP Congress in Montreal by the CAP President, Gabor Kunstatter.

Dr. Lockwood was cited "for his distinguished and sustained contributions to the elucidation of the optical properties of solids, low-dimensional semiconductor systems, and in particular light-emission from silicon, as well as his contributions to the advancement of physics in Canada and worldwide." While many of his contributions in these fields were invaluable, the work on optical properties of silicon made a significant global impact. In landmark papers published in *Nature* in 1995 and in *Physical Review Letters* in 1996, Lockwood *et al.* convincingly demonstrated for the first time quantum confinement-induced visible light emission in a silicon nanostructure, an ultrathin Si/SiO₂ superlattice, grown at the National Research Council. His work has been recognized internationally and made significant impact on the field of silicon photonics for information and communication technology.

In accepting the award, Dr. Lockwood dedicated it with grateful thanks to his talented colleagues at the National Research Council, without whom none of the research work cited above would have been possible. In 2013 he was also awarded the Queen Elizabeth II Diamond Jubilee Medal. Created in 2012 to mark the 60th anniversary of Her Majesty Queen Elizabeth II's accession to the Throne, this commemorative medal honors significant contributions and achievements by Canadians.

In Memoriam

John O'M. Bockris (1923-2013)



Photo credit: S. B. Krivit

JOHN O'MARA BOCKRIS

BERNHARDT PATRICK JOHN O'MARA BOCKRIS died July 7, 2013. He was born in Johannesburg, South Africa on January 5, 1923. He began his undergraduate studies at Brighton Technical College (later converted to Brighton University) in 1940. His original aim was to study physics; however, due to the war efforts many instructors were not available, so he opted for a degree in pure and applied math, chemistry, and physics. He started as a graduate student in electrochemistry in 1943 at Imperial College of Science, London University. His advisor

was Harold J. T. Ellingham. He was awarded his PhD degree in September 1945. That same year he was appointed the faculty of Imperial College, a position he held until 1953. In the period 1953 to 1972 he held the position of Professor of Chemistry at the University of Pennsylvania in Philadelphia and between years 1971 to 1979 he was Professor of Physical Science at The Flinders University of

South Australia. In 1979 he assumed the position of Professor (and later, a Distinguished Professor) of Chemistry at the Texas A&M University in College Station, Texas, until his retirement in 1997 at the age of 74.

Dr. Bockris' scientific interests were many and reached beyond conventional electrochemistry. His early interest was in electrode kinetics and in chemistry at very high temperatures. He contributed to investigation of glasses and slags, which led to physical chemistry models involving silicate ions. He applied ellipsometry and scanning tunneling microscopy to certain work in electrochemistry. He was interested in electrode reactions, in particular oxygen reduction (fuel cells) and iron-electrolyte interactions (corrosion, materials science). Hydrogen embrittlement was yet another materials science topic, in which he was interested, together with all aspects of hydrogen economy. On the other side of chemistry spectrum, he spent great deal of interest on aspects of bio-electrochemistry.

Professor Bockris authored or co-authored 24 books. Of those he highlights in his recent *vitae* the 1970 book with Reddy (*Modern Electrochemistry*, Plenum Press), a book on electrochemistry presented in terms of kinetics. He is an author and co-author of more than 700 papers. About 250 people collaborated with him during his academic career and 85 students obtained PhD under his supervision. ■

This notice was prepared by Petr Vanýsek, ECS Fellow and former Secretary of the Society.

ECS Future Meetings

2014

225th Spring Meeting

Orlando, FL
May 11-16, 2014
Hilton Bonnet Creek

226th Fall Meeting

Cancun, Mexico
October 5-10, 2014
Moon Palace Resort

2015

227th Spring Meeting

Chicago, IL
May 24-28, 2015
Hilton Chicago

228th Fall Meeting

Phoenix, AZ
October 11-16, 2015
Hyatt Regency Phoenix &
Phoenix Convention Center

2016

229th Spring Meeting

San Diego, CA
May 29-June 3, 2016
Hilton San Diego Bayfront &
San Diego Convention Center

PRIME 2016

Honolulu, HI
October 9-14, 2016
Hawaii Convention Center &
Hilton Hawaiian Village