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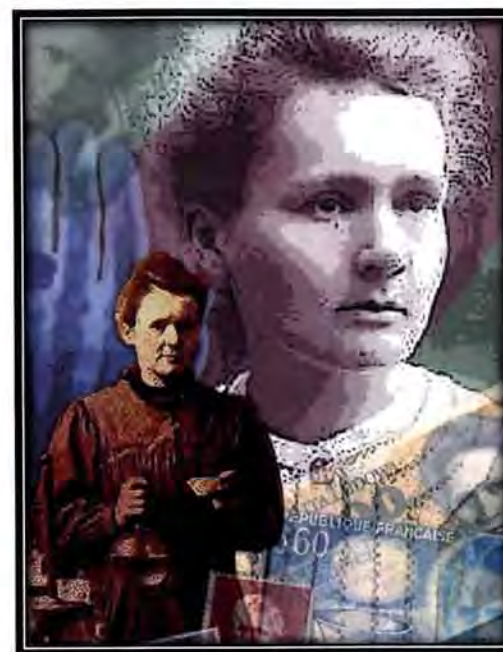
INTERNATIONAL UNION OF
PURE AND APPLIED CHEMISTRY

Committee on Chemistry and Industry

The Dow Chemical Company



2013 Distinguished Women in Chemistry/Chemical Engineering



*INTERNATIONAL UNION OF PURE AND
APPLIED CHEMISTRY*

August 16, 2013

2013 Awardees

Professor Irina P. Beletskaya,

Moscow State University, Russia

Dr Annette Doherty, Senior VP Product Development,
GlaxoSmithKline Plc, UK

Professor Mary Garson,

University of Queensland, Australia

Professor Evamarie Hey-Hawkins,

University of Leipzig, Germany

Professor Kazue Kurihara,

Tohoku University, Japan

Professor Liliana Mammino,

University of Venda, South Africa

Professor Elsa Reichmanis,

Georgia Institute of Technology, USA

Professor Concepció Rovira,

Institute of Materials Science of Barcelona, Spain

Professor Maria Vallet-Regi,

Universidad Complutense, Spain

Professor Angela Wilson,

University of North Texas, USA

Professor Yi Xie,

University of Science & Technology of China

Gaining Momentum: Women in Chemistry and Chemical Engineering

Friday, August 16, 2013

10:15 - 10:35	Mary Garson, University of Queensland, Australia <i>Women Sharing a Chemical Moment in Time</i>
10:35 - 10:50	Elsa Reichmanis, Georgia Institute of Technology, USA <i>Reflections Along a Path from Industry to Academia</i>
10:50 - 11:10	Eva Hey-Hawkins, University of Leipzig, Germany <i>Women in Chemistry - Tolerated? Needed? Wanted?</i>
11:10 - 11:30	Concepció Rovira, Institute of Materials Science of Barcelona, Spain <i>Women in the Interdisciplinary Field of Molecular Electronics</i>
11:30 - 11:50	Kazue Kurihara, Tohoku University, Japan <i>The Current Status of Women in Japan, and in the International Association of Colloid and Interface Scientists</i>
11:50 - 12:10	Angela Wilson, University of North Texas, USA <i>Pathways and Perils to Progress: Advancing Women in Chemistry</i>

Kazue Kurihara

Advanced Institute for Materials Research & Institute of
Multidisciplinary Research for Advanced Materials, Tohoku
University, Japan



Kazue Kurihara received her Ph.D. at University of Tokyo in 1979. After Texas A&M University, Clarkson University, Kyoto University and Institute of Surface Chemistry (Stockholm), she returned to Japan to work as a group leader of ERATO Molecular Architecture Project (JRDC) in 1987. She then moved to Nagoya University as an associate professor in 1992, and was promoted to a professor of Tohoku University in 1997.

She developed nano-interface chemistry based on surface forces measurement. She discovered in 2000 the formation of hydrogen-bonded molecular macroclusters adsorbed on silica in non-polar solvents; the first experimental study on liquid structures at the solid-liquid interface at the molecular level. She developed a new instrument, a twin-path surface forces apparatus for opaque samples, and the resonance shear measurement for studying thin liquid films confined between solid surfaces. These developments not only extended a scope of the measurement in basic science but its technological applications such as in tribology. She has received various awards including the Award from the Society of Japanese Women Scientists in 1997, the Chemical Society of Japan Award for Creative Work in 2000, and A. E. Alexander Lectureship Award 2011 from the Royal Australian Chemical Institute.

Kazue Kurihara has worked for various committees including the gender equality committee of the Chemical Society of Japan and the Society of Polymer Science. She was in 2009 the chairperson of the Japan Inter-society Liaison Association Committee for Promoting Equal Participation of Men and Women in Science and Engineering. She has been a council member of the Science Council of Japan since 2005, and currently is the chairperson of its chemistry committee. She has also served at various committees at MEXT. She has been the president of the International Association of Colloid and Interface Scientists (IACIS) since 2012. She enjoys music, visiting museums and calligraphy.

Liliana Mammino

University of Venda, South Africa



Liliana Mammino was born in Pisa (Italy). She obtained a degree in chemistry at the University of Pisa in 1973 and a PhD in chemistry at Moscow State University (Russia) in 1982, both with theses in theoretical chemistry. She has worked mostly in African institutions: National University of Somalia (1974-1975), University of Zambia (1988-1992), National University of Lesotho (1993-1996) and, since 1997, University of Venda (UNIVEN).

Her research interests comprise theoretical/computational chemistry and chemical education, and she has published extensively in both areas. At UNIVEN, she has actively built research capacity in computational chemistry, focusing on the computational study of biologically active molecules as a field having many potential interfaces with other ongoing research activities in the institution. The capacity building has progressed "from scratch" to a stage enabling the training of postgraduate students, including Ph.D. In the last 20 years, she has also contributed to initiatives to promote the development of computational chemistry in Sub-Saharan Africa, and has been (together with Professor G. Kamau, of the University of Nairobi) one of the initiators of a series of workshops for this purpose.

Her interests in chemical education focus mostly on conceptual understanding and on green chemistry education. The interest in conceptual understanding (and in the roles played by language and by visualization) is strongly stimulated by the specific needs of UNIVEN students, requiring innovative options to reduce the drawbacks determined by the underprivileged context, such as underpreparedness and inadequate mastery of essential learning tools. Her major focus in green chemistry education concerns the dissemination of information to promote sustainable behaviour-patterns. She is a member of the IUPAC Subcommittee on Green Chemistry and the chairperson of the 5th *International IUPAC Conference on Green Chemistry*, to be held in Durban (South Africa) in August 2014. Her preferred past-times: cycling and mountain hiking.