

## Short BIO of Dr Hanna Dabkowska

Hanna A. Dabkowska received her MSc degree in Chemistry from the University of Warsaw and her PhD degree in Physics from the Institute of Physics Polish Academy of Science. Until 1990 she worked as an assistant professor at the Institute of Physics, Polish Academy of Sciences, mostly involved in research on the crystallization of oxides from high temperature solutions. During this time (1979, 1980, 1985) she worked in the Crystal Growth facilities in Clarendon Laboratory, University of Oxford, U.K. Hanna was also a visiting scientist at the Crystal Growth, Laboratory in Moscow State University, Russia (1976). In 1990 she joined McMaster University as a Research Scientist. Her interests include crystal growth and characterization of oxide materials by different methods (mostly Optical Floating Zone Method and Growth from High Temperature Solutions, but also Top Seeding, Czochralski Method, Directional Solidification, Bridgman Method and crystallization from water). She is the author and co-author of more than 140 research papers and 6 chapters in books about crystal growth and serves as a referee in more than 10 peer reviewed journals. She was involved in organization and program committees of many conferences and schools for crystal growth.

### **Affiliations & Activities**

- Since August 2011 served as a Member of the Executive Committee, International Union of Crystallography, IUCr
- 2005 - 2011 served as Chair of the Crystal Growth and Characterization Commission in International Union of Crystallography, IUCr
- Member of American Association for Crystal Growth, AACG and American Crystallographic Association, ACA
- Member of the Executive Committee of International Organization of Crystal Growth
- 2000-2007 served as member of Canadian Co-Data Organisation
- Member of the Editorial Advisory Board for Crystal Growth Research to the Transworld Research Network link <http://www.trnres.com>
- Keith Morris, Science/Math Teacher from Bishop Reding Secondary School, Milton visits Hanna's lab. The attached video discusses the Single Crystal Synthesis and Characterization of Novel Magnetic Material.

### **Research Areas**

- growth of new single crystals of mixed inorganic oxides by the floating zone technique and by the high temperature Solution (flux) method.
- investigation of crystal growth conditions and equilibrium in high temperature solutions
- characterization of single crystals by different methods
- preparation of ceramic materials with properties tailored to user demands Publications:

For more information and the list of publications visit:

<http://www.bimr.ca/people/hanna-dabkowska>