

5th International School and Conference on Spintronics and Quantum Information Technology

7-11 July 2009
Kraków (Cracow)
Poland



Previous conferences

SPINTECH IV, Maui, Hawaii, 2007
chairs: David D. Awschalom and Stuart Wolf
SPINTECH III, Awaji Island, 2005
chairs: Hiroshi Katayama-Yoshida and Hideo Ohno

Conference Chairs

Tomasz Dietl (Polish Academy of Sciences and
University of Warsaw)
Daniel Loss (University of Basel)

School Lectures / Invited Talks

(confirmed, to be enlarged)

- **D.D. Awschalom**: Single spin manipulation
- **B. Braunecker**: Nuclear magnetism in low dimensions
- **H. Buhmann**: Quantum SHE - Exp.
- **G. Burkard**: Theory of single spin manipulation
- **S. Chambers**: High- T_C ferro-DMS and oxides - Exp.
- **J. Fabian**: Spintronics device structures
- **J. Fontcuberta**: Multiferroics
- **G. Fuchs**: Single spins in diamond
- **B. Jonker**: Si-based spintronics
- **T. Jungwirth**: Carrier-controlled ferro-DMS - Theory
- **C. Kane**: Quantum SHE - Theory
- **M. Korkusiński**: Spin manipulation in QD molecules
- **L. Kouwenhoven**: Single spin in QD
- **F. Matsukura**: Carrier-controlled ferro-DMS - Exp.
- **S. von Molnar**: Birth of III-V DMS
- **H. Munekata**: Spin-photonics of III-V DMS
- **H. Ohno**: III-V DMS 20 years later
- **K. Sato**: High- T_C ferro-DMS and oxides - Theory
- **J. Sun**: Functional metal spintronics
- **B. van Wees**: Spintronics and valleytronics in carbon
- **W. Wernsdorfer**: Molecular spintronics
- **M.-W. Wu**: Carrier correlation and spin relaxation

Organizing Committee

Marek Szymoński (Jagiellonian University, Kraków) – chair
Alberta Bonanni (Johannes Kepler University, Linz) – fund raising
Tomasz Dietl (Polish Academy of Sciences/University of Warsaw)
Paweł Janiszewski (Polish Academy of Sciences, Warsaw) – materials
Elżbieta Łuskowska (Polish Academy of Sciences, Warsaw) – finances
Maciej Sawicki (Polish Academy of Sciences, Warsaw) – secretary
Elżbieta Zipper (Silesian University, Katowice) – local arrangements

International Advisory Committee

- **Koji Ando** (Tsukuba)
- **David D. Awschalom** (University of California, Santa Barbara)
- **Gerhard Abstreiter** (Walter Schottky Institute, Munich)
- **Józef Barnaś** (Mickiewicz University; PAS, Poznań)
- **Manfred Bayer** (Dortmund University)
- **Arne Brataas** (University of Trondheim)
- **Luis Brey** (ICM, Madrid)
- **Joel Cibert** (CNRS, Grenoble)
- **Paul Crowell** (University of Minnesota)
- **J. Carlos Egues** (University of Sao Paulo)
- **Michael Flatté** (University of Iowa)
- **Atsushi Fujimori** (University of Tokyo)
- **Jacek Furdyna** (Notre Dame University)
- **Jan Gaj** (University of Warsaw)
- **Bryan Gallagher** (Nottingham University)
- **Paweł Hawrylak** (NRC, Ottawa)
- **Hiroshi Katayama-Yoshida** (Osaka University)
- **Atac Imamoglu** (ETH, Zurich)
- **Jacek Kossut** (Polish Academy of Sciences, Warsaw)
- **Allan MacDonald** (University of Texas at Austin)
- **Laurens Molenkamp** (Wuerzburg University)
- **Stephan von Molnar** (Florida State University)
- **Hideo Ohno** (Tohoku University)
- **Theo Rasing** (Radboud University of Nijmegen)
- **Emmanuel Rashba** (Harvard University)
- **Wim Van Roy** (IMEC, Leuven)
- **Sergij Ryabchenko** (NASU, Kiev)
- **Nitin Samarth** (Pennsylvania State University)
- **Jairo Sinova** (Texas A&M University)
- **Sung-Chul Shin** (KAIST, Korea)
- **Tomasz Stobiecki** (AGH, Kraków)
- **Seigo Tarucha** (University of Tokyo)
- **Dieter Weiss** (Regensburg University)
- **David Williams** (Hitachi, Cambridge)
- **Ulrich Zuelicke** (Massey University, Auckland)
- **Igor Žutić** (Buffalo University)