

International Workshop on Atomic Scale Wires - AtWires

Workshop Programme

Tuesday - September 09, 2014

18:00-20:00 registration and welcome reception Jagiellonian University "Collegium Maius", Jagiellonska street no. 15

Wednesday - September 10, 2014

09:00-09:10 **Workshop opening**

Session I

09:10-09:50	40+10min	Mark Saeys	<i>Creating wires and devices using dangling bond states on semiconductor surfaces: a theoretical perspective</i>
10:00-10:30	30+5min	Marek Kopciuszyński	<i>Spin-polarized one dimensional surface states on the Si(553) surface</i>
10:35-10:50	15+5min	Mads Engelund	<i>Persistent asymmetric electronic structure of dangling-bond pair defects on Si(001):H</i>

10:55-11:25 coffee break

11:25-12:05	40+10min	Steven Schofield	<i>Atomic-scale quantum structures at silicon surfaces</i>
12:15-12:45	30+5min	Sigrun A. Koester	<i>Contacting holes in SiGe quantum dots with atomic scale wires</i>

13:15-14:30 lunch

14:45 visit to the Jagiellonian University Museum "Collegium Maius"

Session II

15:15-15:55	40+10min	Mieczyslaw Jalochocki	<i>Multiple atomic chains on vicinal Si(111) surfaces</i>
16:05-16:45	40+10min	Olga Neucheva	<i>Dangling Bonds on Si(100)H: Atomic Scale Wiring and Boolean Logic Gates</i>

16:55-17:10 coffee break

17:10-17:50	40+10min	David Bowler	<i>Self-assembled Bi nanolines on Si(001) and their uses</i>
18:00-18:30	30+5 min	Andreas Fuhrer	<i>Structure of atomic Mn wires on the Si (001) surface</i>

Thursday - September 11, 2014

Session III

09:00-09:40	40+10min	Michelle Simmons	To be announced
09:50-10:30	40+10min	Robert A. Wolkow	<i>Measurement of surface state confined conduction on silicon surfaces</i>
10:40-10:55	15+5min	Aran Garcia-Lekue	<i>Nanograting Formation Mediated by Metal Organic Complexes</i>

11:00-11:30 coffee break

11:30-12:10	40+10min	Marek Kolmer	<i>Atomic-scale dangling bond structures on hydrogenated semiconductors - LT-STM/STS study</i>
12:20-12:50	30+5min	Bruno Schuler	<i>Delocalizing small polarons in coupled Cl vacancies</i>

13:15-14:30 lunch

15:00-15:20	20+5min	Markus Maier	<i>Recent advancements in surface science instrumentation - The LT Nanoprobe</i>
15:25-15:45	20+5min	Jakub Lis	<i>Dangling bond pairs on Ge(001):H – insight from DFT models</i>

15:50-16:20 coffee break

16:30-22:00 workshop outing and dinner

Friday - September 12, 2014

Session IV

09:00-09:40	40+10min	Tsuyoshi Hasegawa	To be announced
09:50-10:30	40+10min	James Owen	<i>Atomic Wires: From Self-Assembly to Automated STM Lithography</i>
10:40-10:55	15+5min	Paweł Dyniec	<i>Au decorated Pb atomic chains on Si(553) surface</i>

11:00-11:30 coffee break

11:30-12:00	30+5min	Xavier Jehl	<i>1-Atom and 2-Atom Nanowire Transistors from CMOS technology</i>
12:05-12:35	30+5min	Mariusz Krawiec	<i>Protecting vicinal Si surfaces from degradation: graphene on the Si(553)-Au surface</i>

12:40

closing

13:15-14:30 lunch