

**XXIst INTERNATIONAL WINTERSCHOOL
on
ELECTRONIC PROPERTIES
of
NOVEL MATERIALS**

EUROCONFERENCE



MOLECULAR NANOSTRUCTURES

**10. 03. - 17. 03. 2007
HOTEL SONNALP - KIRCHBERG / TIROL - AUSTRIA**

SECOND ANNOUNCEMENT

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S. Louie (US)	D. Zhu (CN)

*unconfirmed

Scope

The Winterschool will provide a platform for reviewing and discussing new developments in the field of electronic properties of molecular nanostructures and their applications.

Subjects included are:

- Carbon nanotubes growth and selection
- Carbon nanotube optics and electronics
- Carbon nanotube spectroscopy
- Material science of graphene
- Molecular nanostructure transport and spintronics
- Theory of molecular nanostructures
- Applications of molecular nanostructures
- Molecular machines and molecular motors
- Template grown molecular nanomaterials
- Single molecule experiments

Theoretical and experimental contributions from research work in this new field of material science are welcome.

Time and Location

The winterschool will be conducted from

March 10 to March 17, 2007

at the HOTEL SONNALP in Kirchberg / Tirol, Austria.

All participants of the winterschool will be accommodated in the hotel or in nearby private houses.

Dinner will be served for all participants at the hotel. The Hotel Sonnalp is a modern, Tyrolean style building with a very cosy atmosphere, a big lecture room and several special installations like indoor swimming pool, sauna, solarium, etc. for your recreation.

Program

The Winterschool will start with an introductory part and then cover the following sessions:

- material science of carbon nanotubes
- electronic structure of graphene & graphit
- transport in molecular nanostructures
- optics and spectroscopy of molecular nanostructures
- spin dynamics in molecular nanostructures (including quantum computing)
- nanowires & single molecule experiments
- applications of molecular nanostructures

There will be a special session on the occasion of the 20th anniversary of the Kirchberg Winterschool at the Hotel Sonnalp.

Preliminary List of Invited Speakers

Appenzeller J. (Yorktown)	Hennrich, F. (Karlsruhe)	Petterson, J. (Dublin)
Ardavan A. (Oxford)	Herre v d Zant (Delft)	Perebeinos V. (Yorktown Heights)
Bakkers E. (Eindhoven)	Hofmann St. (Cambridge)	Pfeiffer R. (Wien)
Baughman R. (Richardson)	Iijima S. (Nagoya)	Pichler T. (Dresden)
Burghard M. (Stuttgart)	Jarillo-Herrero P. (New York)	Popov V. (Sofia)
Calame M. (Basel)	Jorio A. (Belo Horizonte)	Prinz (Novosibirsk)
Capaz R. (Rio de Janeiro)	Kaiser A. (Wellington)	Raquet B. (Toulous)
Cleuziou J.P. (Toulouse)	Kataura H. (Tsukuba)	Richert C. (Karlsruhe)
Corzilius (Darmstadt)	Lazzeri M. (Paris)	Rotenberg E. (Berkeley)
Doorn S. (Los Alamos)	Lee Y.H. (Suwon)	Rubio A. (San Sebastian)
Endo M. (Nakasato)	Loiseau A. (Chatillon)	Samuelson L. (Lund)
Ferrari A. (Cambridge)	Louie S. (Berkeley)	Sauvajol J.-L. (Montpellier)
Filoramo A. (Saclay)	Maruyama S. (Tokyo)	Scalia, G. (Stuttgart)
Fischer J. (Philadelphia)	Maultzsch J. (New York)	Simon F. (Budapest)
Geohegan D. (Oak Ridge)	McCann E. (Lancaster)	Weber H. (Erlangen)
Grüneis A. (Dresden)	Mehring M. (Stuttgart)	Wolf, M. (Berlin)
Gruner G. (Los Angeles)	Mleczko (Leverkusen)	Zettl A. (Berkeley)
Harneit W. (Berlin)	Morpurgo (Delft)	
Heinz T. (New York)	Novoselov K.S. (Manchester)	

Invited lectures will be scheduled in the morning from 8:30 to 12:00 and in the evening after 18:30. The afternoon will be used for mini workshops or private discussions.

In addition to the above list several other scientists are in the process of being invited or will be invited according to the submitted abstracts.

Contributed Papers

Contributed papers covering the research field outlined on page 2 and 3 will be scheduled as 30 minutes research lectures or as posters. The time for research lectures includes 10 minutes for discussion.

Abstracts for invited and contributed papers must be received before JANUARY 5, 2007 together with an informal application for participation.

All abstracts for must be submitted by internet using the application form at:

<http://www.univie.ac.at/spectroscopy/php/iwep/>

Proceedings

Camera ready manuscripts of invited and contributed papers are scheduled for publication. Detailed information will be forwarded to contributors.

Attendacnce

An informal application for participation at the Winterschool must be submitted by internet at: <http://www.univie.ac.at/spectroscopy/php/iwep/>

Applications should be submitted as soon as possible and must be received not later than

JANUARY 5, 2007

Early submission of application is recommended. The number of participants will be strictly limited. Applicants submitting a contribution will be considered with preference. Applicants will be notified about their acceptance by January 11, 2007.

Travel

Kirchberg is easily reached by train or by car. It is situated on the main railway line from Vienna to Innsbruck and quite close to the Autobahn München - Innsbruck. The closest international airports are München (80 km), Salzburg (80 km) and Innsbruck (70 km). Please remember that the winter in Tirol can be quite cold.

Further Information

Requests and further information should be sent to:

Prof. Hans Kuzmany
Fakultät für Physik,
Universität Wien
Strudlhofgasse 4,
A-1090 Wien, AUSTRIA
Tel.: ++43 1 4277 – 51306
FAX: ++43 1 4277 - 51375
email: iwep.fks@univie.ac.at
<http://www.univie.ac.at/spectroscopy/iwep.htm>

For accommodation two categories will be available:

A: twin room with bath, etc., at the Hotel Sonnalp or Hotel Taxacher.

B: three-bed room as in category A or twin room in private accommodation

Please choose your category. The final decision will be made by the organizers.

Fees

The fees for the Winterschool are

€ 770,- cat. A

€ 630,- cat. B

which includes accommodation, breakfast and dinner, the proceedings and the contribution for participation. The latter amounts to 370,- €. A very limited number of single rooms will be available for an extra charge of € 170,- (cat.A) and € 90 (cat.B). The fee will be due immediately after notification of acceptance. Application for financial support including information about the scientific status and age of the applicant should be submitted together with the application for participation. Financial support will be provided for students and invited speakers.



This Winterschool will be conducted as a Euro conference

The venue

