

Circular

Ringberg Symposium

Hydrogen on Surfaces

November 29 - December 2, 1995

Schloß Ringberg, D-83700 Rottach-Egern, Germany

**Jointly organized by the Sonderforschungsbereich 338
"Adsorption an Festkörperoberflächen", München
and by the Max-Planck-Institut für Quantenoptik, Garching**

Organizers: W. Brenig and U. Höfer

• **Topics**

The interaction of molecular and atomic hydrogen with solid surfaces is frequently considered as model for the reaction of more complicated adsorbates. The objective of this symposium is the discussion of recent experimental and theoretical advances in hydrogen adsorption on metal and semiconductor surfaces. Special emphasis will be on the following topics:

- Eley-Rideal reactions
- Adsorption and desorption dynamics of H₂/Si
- Electronic and vibrational structure of H/Si
- Hydrogen-induced structural changes of surfaces
- Ab initio theory of hydrogen potential energy surfaces
- Quantum effects in hydrogen overlayers

• **Participation**

Participation at the symposium is by invitation only. There is no conference fee. Travel expenses and accommodation will be covered by the sponsors up to a reasonable amount. The format of the meeting will be such as to promote intensive discussions between experts in different sub-fields. It is planned to have approximately 25 talks of 30 minutes duration divided into nine sessions. The total number of participants is limited to 35, allowing for the attendance of only a few non-speakers. So far, the following invited speakers have confirmed their participation:

- E. Bertel (Garching)
- E. Carter (Los Angeles)
- K. Christmann (Berlin)
- P. Dumas (Paris)
- A. Gross (Berlin)
- P. Guyot-Sionnest (Chicago)
- B. Hammer (Lyngby)
- E. Hasselbrink (Berlin)
- K. Heinz (Erlangen)
- S. Holloway (Liverpool)
- H. Ibach (Jülich)
- K. Jordan (Pittsburgh)

P. Kratzer (Lyngby)
J. Küppers (Bayreuth)
D. Menzel (Garching)
M. Persson (Göteborg)
R. Russ (Garching)
M. Scheffler (Berlin)
A. Selloni (Geneva)
W. Widdra (Garching)
A. Winkler (Graz)
J. Yates (Pittsburgh)
H. Zacharias (Essen)
P. Zeppenfeld (Jülich)

• Location

The symposium will take place at the castle "Schloß Ringberg" of the Max-Planck-Society, 65 km south of Munich. The castle is overlooking the lake Tegernsee and not open to the public. Accommodation is within the castle, mostly in single rooms. Each room has a private bath/shower and is equipped with telephone. Fax and internet access are also available. All meals, except lunch on Saturday will be served in the castle. The atmosphere of the site usually stimulates intense discussion between the scientific sessions. The address during the meeting is:

Tagungsstätte der Max-Planck-Gesellschaft, Schloß Ringberg,
D-83700 Rottach-Egern, Germany,
Tel: (49)-8022-279-0, Fax: (49)-8022-279-259.

• Schedule

Participants of the symposium will receive the final program at the beginning of November. Arrival at Schloß Ringberg should be Wednesday, November 29, 1995 in the afternoon. The Symposium will start with dinner at 18:30 followed by a short welcome and evening session. On Thursday and Friday there will be two sessions in the morning, one in the late afternoon and one in the evening. On Saturday there will be a final morning session followed by lunch in Tegernsee or Rottach-Egern. The symposium will end on Saturday, December 2, 1995 around 13:00.

• Transportation

Direct flights to Munich international airport are available from many European cities and from some major US cities (please use an inexpensive flight!). From the airport please arrange with the organizers to be picked up or take a Taxi to Garching.

Transportation from Garching to Schloß Ringberg will be by car or bus. If you arrive by train at Munich main station, we recommend to change trains there, continue directly to Tegernsee station (1 hour) and take a Taxi to the castle. Those travelling by car should be aware of the possibility that the steep road leading up to the castle may be covered by snow in late November. This may require an accordingly equipped car. Please communicate your anticipated arrival time in Garching or Schloß Ringberg in advance to one of the organizers.

• Abstracts

All the speakers are kindly requested to submit a short abstract, not exceeding one page, until October 1, 1995. Those, who have not provided us with the title of their talk yet, should do this at their earliest possible convenience. There will be no written proceedings of this symposium.

• Visit to [Garching](#) or [Munich](#)

All participants are welcome to visit the laboratories of the surface science groups at the Technical University of Munich and the Max-Planck-Institutes for Quantum Optics and Plasma Physics in Garching before or after the symposium. The organizers are also happy to assist with hotel reservations for those wishing to visit the city of Munich. For speakers from the US, the expenses for one overnight stay in Munich or Garching after the meeting will be covered.

- **Contact addresses**

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