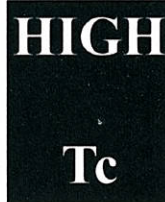




TECHNISCHE  
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## Program



## 34th Workshop

on

# Novel Materials and Superconductors

## JUFA Schladming February 10 – 15, 2019

*Sponsored by TU Wien*

<b>Location:</b>	<b>JUFA Hotel Schladming</b> <b>Coburgstrasse 253, A – 8970 Schladming</b> Tel: +43(0) 5/7083-330 international Fax: +43(0) 5/7083-331 international
<b>Date:</b>	<b>Arrival: Sunday, February 10th, 2019</b> (Dinner 18:00, Get Together 19:30) <b>Departure: Friday, February 15th, 2019</b>

### Organizers:

**Univ.Prof. Dr. Günther Rupprechter**  
Ao.Univ.Prof.Dr. Peter Blaha  
Mag.phil. Ulrike Prohaska  
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B. Batlogg  
F. Kubel  
G. Rupprechter

### Program Committee:

U. Diebold  
W. Lang  
K. Schwarz

P. Knoll  
S. Paschen  
P. Weinberger

World Wide Web: <https://www.imc.tuwien.ac.at/konferenzen/>

## POSTER CONTRIBUTIONS:

- **Andrea Auer** (Univ. Innsbruck)  
A. Auer, N.S. Nia, C. Griesser, J. Kunze-Liebhäuser  
*Electrochemical Scanning Tunneling Microscopy Study of Cu Single Crystals in CO Saturated Alkaline Solutions*
- **Andreas Baum** (Walther-Meißner-Institut München)  
A. Baum, H.N. Ruiz, N. Lazarevic, Yao Wang, T. Böhm, R. Hosseinian Ahangharnejhad, P. Adelman, T. Wolf, Z.V. Popovic, B. Moritz, T.P. Deveraux, R. Hackl  
*Frustrated Spin Order and Stripe Fluctuations in FeSe*
- **Sohaib Ehsan** (TU Wien)  
S. Ehsan, M. Arrigoni, G. Madsen, P. Blaha  
*First Principles Phonon Calculations for High Temperature Phase of Perovskites*
- **Rezek Estaiteh** (Palestine Technical University)  
M. Rezek, S. Katircioglu  
*Structural Stability and Electronic Properties of Different Cross Sectional Unstrained and Rectangular Cross Section Strained GaP Nanowires*
- **Clara Freytag** (TU Wien)  
Y. Suchorski, M. Datler, I. Bepalov, C. Freytag, J. Zeininger, G. Rupprechter  
*Hydrogen Oxidation on ZrO<sub>2</sub> Supported Rh: Metal-Oxide Interaction Transmitted by Solitary Chemical Waves*
- **Georg Gravogl** (TU Wien)  
*Hydration Behaviour and Cycle Stability of Magnesium Oxide as Thermochemical Energy Storage Material*
- **Shaimaa Habib** (Univ. Graz)  
Shaimaa A. Habib, C. Strablegg, J. Reynvaan, C. Prietl, P. Knoll  
*Ferrite-Graphene Nano-Composites Promising in Energy Management Application*
- **Leila Kalantari** (TU Wien)  
L. Kalantari, P. Blaha  
*Water Adsorption on the CuOx and NiOx Attached to the Anatase TiO<sub>2</sub> (101) Surface by DFT Calculation*
- **Frieda Maria Kapsamer** (TU Wien)  
F.M. Kapsamer, M. Seifried, C. Knoll, D.Müller, G.Giester, M.Reissner, P.Weinberger  
*Imidazole-Based Scorpionate Ligands in Iron (II) Complexes and Their Spin-Crossover Behaviour*
- **Lorenz Lindenthal** (TU Wien, Austria)  
L. Lindenthal, R. Rameshan, C. Rameshan  
*Structural and Chemical Characterisation of Doped Perovskites by XPS and XRD - Tailored Exsolution of Metal Nanoparticles*
- **Franz Renz** (Leibniz Univ. Hannover)  
*Concerted Spin State Switching*
- **Paolo Rudatis** (TU Wien)  
P. Rudatis, D. Eder  
*Composites in Photoelectrochemical Water Splitting*

- **Thomas Ruh** (TU Wien)  
T. Ruh, L. Lindenthal, R. Rameshan, C. Rameshan, P. Blaha  
*Structural Relaxation of Doped Rare Earth Perovskites*
  - **Marco Seifried** (TU Wien)  
M. Seifried, C. Knoll, G. Giester, M. Reissner, D. Müller P. Weinberger  
*Towards Functionalized N1-Substituted 1H-Tetrazoles – A Cross-Coupling Approach*
  - **Vera Truttmann** (TU Wien)  
V. Truttmann, N. Barrabes, G. Rupprechter  
*Reaction of Supported Au<sub>11</sub> Nanoclusters with Thiolates*
  - **Dagmar Wengerowsky** (Leibniz Univ. Hannover)  
D. Wengerowsky, R. Lehmann, H-J. Schmidt, G. Klingelhöfer, R. Sindelar, B.F.O. Costa, F. Renz  
*News From "Trompetenden Putto"*
  - **Willi Zeni** (TU Wien)  
W. Zeni, C. Knoll, J.M. Welch, M. Reissner, G. Giester, D. Müller, P. Weinberger  
*Bifunctional Fe(II) SCO-Complexes Based on  $\omega$ -(1H-Tetrazol-1-yl) Carboxylic Acids*
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**General Information:**

*Breakfast: 07.00 – 10.30*

*Lunch: 12.30 – 13:30*

*Dinner: 18.00 – 20.00*

*Afternoon Talks: 30min talk, 10min discussion suggested*

*Evening Talks: 20min talk, 10min discussion suggested*

*Students Talks on Friday: 15min talk, 5min discussion suggested*