

“Emission (Luminescence) and Optical Absorption Spectroscopy: Basis and Applications in Earth Sciences”

Preliminary list of talks by invited speakers (public, marked blue) and short course participants:

Monday, March 3: Public talk of the Österreichische Mineralogische Gesellschaft):

D. Weiß (Institut für Organische Chemie und Makromolekulare Chemie, Friedrich-Schiller-Universität Jena, Germany):

What we can learn from fireflies – luminescence in nature and lab.

(Public lecture in the framework of the talk series of Österreichische Mineralogische Gesellschaft)

Tuesday, March 4:

G. King (School of Geography and Geosciences, University of St. Andrews, U.K.):

Application of optically stimulated luminescence (title to be specified).

F. Deon (GeoForschungsZentrum Potsdam, Germany):

Application of ruby luminescence to pressure calibration: water incorporation in coesite and wadsleyite.

A.M. Zaitsev (Dept. of Engineering Science and Physics of the College of Staten Island and the Graduate School of the City University of New York, U.S.A.):

Optical spectroscopy of diamond.

Wednesday, March 5:

M. Gaft (LDS (Laser Detect Systems), Petach Tikva, Israel):

Laser-induced time-resolved luminescence of minerals: fundamentals and applications.

Thursday, March 6:

U. Hälenius (Swedish Museum of Natural History, Stockholm, Sweden):

Applications of optical absorption spectroscopy to the cation distribution in oxide minerals.

C. Mendoza (Université Claude Bernard Lyon 1, Villeurbanne, France):

Vitroceraic aging under external irradiation and behavior of analogue powellite phases - a photoluminescence study.

A. Derwahl (Horiba, München):

Applications in fluorescence spectroscopy.

Friday, March 7:

L. Nasdala (Institut für Mineralogie und Kristallographie, Universität Wien, Austria):

Spectroscopy of radiation-damaged minerals.

K. Ruschel (Institut für Mineralogie und Kristallographie, Universität Wien, Austria):

Photoluminescence studies on self-irradiated minerals.

A. Juhin (Institut de Minéralogie et de Physique des Milieux Condensés, Université Paris 6, France) :

The origin of the colour of Cr-containing minerals : experimental and theoretical investigation of spinel and pyrope garnet.

T. Häger (Institut für Geowissenschaften, Universität Mainz, Germany):

Absorption and emission spectroscopy in gemmology.