

Organized by

General Physics Institute, Russian Academy of Sciences, Moscow, Russia
Connecticut College, New London, Connecticut USA

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Scientific Program

The scientific program covers a broad field of modern theoretical and experimental tunable diode laser spectroscopy. Two sessions will be held each day, morning and afternoon. The Conference schedule will include invited lectures and poster sessions.

1. Semiconductor Lasers.

A_{III}B_V, A_{IV}B_VI₂, DFB lasers, quantum cascade lasers, photoelectric devices, laser noise, laser line width.

2. New Techniques and Technology.

Instrumentation and components, signal processing, fiber optics, calibration.

3. Fundamental Spectroscopy.

New spectral data, line profile studies, kinetics and photochemistry.

4. Diagnostic and Process Monitoring.

Exhaust gas analysis, detection of explosives and drugs, isotope ratio measurements, plasma diagnostics.

5. Environmental Monitoring.

Atmospheric monitoring, instrument intercalibration, field experiments, laboratory studies.

6. Industrial Developments.

Analytical systems based on Tunable Diode Lasers.

Abstracts

Abstracts are accepted in electronic form and should be sent as e-mail attachments to: tdls@nsc.gpi.ru. Word format of abstracts is preferable. Abstracts will not be edited. Authors are fully responsible for both appearance and content of their submission. The title should be centered and typed in upper case. The name(s), affiliation and address of the author(s) should be centered and typed in upper and lower case letters. Abstracts should be typed single spaced using Times 12 pts font. Margins should be at least the following: top - 3.5 cm; bottom - 2.5 cm; right - 2.5 cm; left - 2.5 cm (3 cm for Letter size paper). Maximum length is one page. **Deadline for abstracts submission is March 15, 2003**

Invited Speakers

Jürgen Röpcke, Institute for Low Temperature Plasma Physics, Germany

Muriel Lepere, Facultés Universitaires Notre-Dame de la Paix, Belgium

Dirk Richter, National Center for Atmospheric Research, USA

Mark Zahniser, Aerodyne Research, USA

Doug Baer, Los Gatos Research, USA

Kay Niemax, Institute of Spectrochemistry and Applied Spectroscopy, University of Dortmund, Germany

Bertrand Parvitte, Université de Reims France

Georges Durry, CNRS, Institut Pierre Simon Laplace, France

Daniel Hurtmans, Université Libre de Bruxelles, Belgium

Frank K. Tittel, Rice University, USA

Daniele Romanini, CNRS, Université J. Fourier de Grenoble, France

Daniel Hofstetter, University of Neuchatel, Institute of Physics, Switzerland

Stephane Vannuffelen, Schlumberger, EPS-SRPC, France

Yuri Ponomarev, Institute of Atmospheric Optics, Russia

Nobukimi Ohashi, Kanazawa University, Japan

Martin Fejer, Stanford University, USA

Matthew Taubman, Pacific Northwest National Laboratory, USA

A.R.W. McKellar, National Research Council of Canada

Ruedeger Koehler, NEST-INFM, Italy

Stephane Schilt, Swiss Federal Institute of Technology, Switzerland

Conference Proceedings

A special issue of **Spectrochimica Acta** will be prepared and distributed to each participant. Manuscripts should be submitted to Arlan Mantz at Connecticut College prior to September 30, 2003.

Language

The Conference language is English.
Abstracts must be submitted in English.

Registration Fees

	before 31 Mar	after 31 Mar
Regular Participants	350 US\$	450 US\$
Students	170 US\$	250 US\$
Accompanying persons	30 US\$	50 US\$

Participants have two methods to pay fees; they are as follows:

By Check:

make check payable to:

Connecticut College, account B3239182-4339000

and send check to: Prof. A. W. Mantz

Department of Physics, Astronomy and Geophysics

Connecticut College 270 Mohegan Avenue

New London, CT 06320-4196

by Money Transfer (Bank to Bank)

Transfer to:

Fleet Bank, P. O. Box 40,000 Department 713 Hartford, Connecticut 06151 0313 USA

ABA Number 011900571

Account Number: 000 260 3780

Owner of account: Connecticut College

After a wire transfer is done send an e-mail personally to: Arlan W. Mantz at awman@conncoll.edu explaining how much money was transferred and specific details regarding the different categories, including names of individuals, to which the funds which were transferred are to be credited.

Accommodations

Conference will be held in Hotel Zermatterhof. Hotel rates are SFr 195 (about \$120 US\$) per person per day. Please consult the web page for more details. Participants should expect to arrive at their hotel Sunday, July 13, 2003. Conference is from Monday 8:30 am until Friday 12:30 pm. Detailed instructions for other accommodations in Zermatt may be found on the web page.