



18th International Conference on Laser Spectroscopy 24 - 29 June 2007

ICOLS-07 Circular 2

1 March 2007

Foreword

This, our second circular, brings important information concerning registration, travel, accommodations, and activities for the 18th International Conference on Laser Spectroscopy (ICOLS-07), which will be held June 24-29, 2007 at the **Telluride Conference Center** (<http://www.tellurideconference.com/>) in Telluride's Mountain Village (<http://www.mountain-village.co.us/>). The Mountain Village Resort and the Conference Center are connected to the historic town of Telluride (<http://www.town.telluride.co.us/home/index.asp>) by a free and spectacular twelve-minute gondola ride. Mountain Village is also accessible by car, by shuttle bus, or by foot (about a 45 minute walk).

We will host a reception for all attendees and accompanying persons at the **Telluride Mountain Lodge** Sunday evening from 1800 - 2200 hrs at which sandwiches, hors d'oeuvres, soft drinks and a cash bar will be provided. For your convenience, a satellite registration and information desk will be set up in this hotel's lobby Sunday only from 1400-2200 hrs. During the remainder of the week, staff will be available from 700 – 1700 hrs at the ICOLS-07 Headquarters, which will be located in the lobby of the **Conference Center**, to distribute registration packets and general information. ICOLS-07 will commence in earnest at 830 Monday morning with an ambitiously full schedule of invited talks, poster sessions, excursions and social activities that we will somehow draw to a close by noon, Friday.

(And should that not be enough, attendees should note that our Conference is sandwiched between the Telluride Bluegrass Festival the previous week (ending Sunday evening the 24th!) and the Telluride Wine Festival (beginning Friday the 29th!). These are fabulous events should you want to attend but be aware that 10,000 people will descend on the town for its famous Bluegrass Festival making accommodations for the days preceding ICOLS-07 difficult to obtain.)

The goal of ICOLS is to gather together active researchers in the broad areas of laser spectroscopy to exchange ideas and share their latest results. ICOLS-07 topic areas will include:

- *Atomic and Molecular Laser Spectroscopy
- *Precision Measurements, Clocks and Space
- *Laser Cooling and Trapping
- *Ultrafast spectroscopy, High Fields and Control
- *Atom Optics and Interferometry
- *BEC's and degenerate Fermi Gases
- *Quantum and Nonlinear Optics
- *Quantum Information and Control
- *Novel Applications of Laser Spectroscopy
- *Hot Topics

Confirmed Invited Speakers Include:

Victor Balykin	Nergis Mavalvala
Immanuel Bloch	Dieter Meschede
Philippe Bouyer	Frédéric Merkt
Antoine Browaeys	Dan Neumark
Eric Cornell	Eugene Polzik
Paolo de Natale	Mike Romalis
Gerald Gabrielse	Till Rosenband
Theodor Hänsch	Yoshiro Takahashi
Serge Haroche	Guglielmo Tino
Ed Hinds	Wim Ubachs
Deborah Jin	Wim Vassen
Jeff Kimble	Jun Ye
Christiane Koch	Jie Zhang

Following tradition and by design, participation in ICOLS-07 will be limited to approximately 300 attendees by invitation only. The program will consist of ~35 invited oral presentations (daily single session format) and two evening poster sessions. Wednesday afternoon will be held free for informal discussions and recreational activities. In line with all previous meetings, the proceedings of ICOLS-07 will be published as a hardbound book containing summaries of all of the invited talks. This year

we will also compile a DVD containing the image of any poster presented at ICOLS-07 that is delivered to us in a PDF format by the end of the Conference. You may either email a (compressed) PDF file to Wayne Itano (itano@boulder.nist.gov) or Didi Leibfried (dil@boulder.nist.gov) prior to the Conference, or simply bring an electronic version of the poster with you to the Conference. The poster contributions have been and will remain a vital part of every ICOLS meeting and their collection onto a DVD will provide a more complete record of the Conference than would the book alone.

Solicitation of Posters

The Organizing Committee now solicits your contribution for consideration for the ICOLS-07 poster sessions. Each prospective contributor must submit a brief abstract for inclusion in the abstract booklet that will be distributed at the meeting. Abstract lengths are limited to two pages in a PDF format using the 9"x 6" style of World Scientific http://www.worldscientific.com/style/proceedings_style.shtml . Abstracts should be sent before May 1, 2007, to our Poster Chairman, Didi Leibfried. Abstracts may be submitted either electronically to dil@boulder.nist.gov, or by regular mail to Didi Leibfried NIST Div 847, 325 Broadway, Boulder, CO 80305 (USA).

Registration Information

Registration for invited delegates to the Conference will be handled by the Telluride Science Research Center (TSRC) through a website linked from the ICOLS-07 website, www.laserspectroscopy.org. The registration website will be activated March 7 and will require a password. Please contact the conference organizers to express your interest in attending. The registration fee is \$700 prior to 1 May, 2007 and \$850 thereafter. Registration fees will cover the cost of the technical conference, the ICOLS-07 proceedings (hardcopy book and DVD of poster images), continental breakfast and lunch (Monday through Friday), coffee breaks, free wireless internet connections at the Conference Center, and the Conference banquet. Questions related to the registration/accommodations system should be addressed to Kari Koch icols@telluridescience.org . Please note that conference space and accommodations are limited so please register early.

Accommodations

As with registration, accommodations will also be handled by TSRC through the same website. There will be a limited number of hotel-style, single rooms available. However, much of the lodging will be in beautiful two, three, and four bedroom condominiums and cabins which offer each attendee a private bedroom (and, most often, a private bath) but share a large common area consisting of a fully equipped kitchen, dining and living room. Many of the bedrooms are on floors separate from the kitchen, dining and living room area. Rooms in these units will be made available to individuals, *self-organized* groups and families on a first come, first served basis. Hence, if you wish to register as a family or as a group, please do so early and list all family members or

group members in the comment section of the registration menu. For families or students trying to lower costs, many of the rooms can sleep more than one, so also please indicate in the comment section any family or group member willing to share a room. Every attempt to accommodate our attendees will be made, but late registrants will have fewer options. Most of the units are within walking distance of the Conference Center (1.5 km or less), but transportation will be provided if necessary. If you need to take advantage of this service, then so indicate when you register.

Please note that TSRC will make room arrangements only for the week of the Conference (Sunday through Friday). If you plan to arrive earlier or to leave later, then you are responsible for arranging your own accommodations for the additional days of your stay (and we suggest first contacting the lodge to which you are assigned for ICOLS-07). As already mentioned, lodging for an early arrival will be difficult to obtain (and likely only in the peripheral villages such as Montrose, Grand Junction and the like) owing to the large numbers attending the Telluride Bluegrass Festival, whereas lodging for a late departure should be possible in either the Mountain Village or Telluride.

Independent of the length of your stay, we strongly encourage you to make your room reservations early!!!

Transportation

Each attendee is responsible for his or her own travel arrangements to Telluride and the Mountain Village resort. In what follows, we offer some suggestions for transportation to Telluride.

Option 1: We will offer round trip couch service from Denver International Airport and/or Boulder to Telluride for a flat fee of \$100. This option and only this option will be available through a drop down menu on the TSRC website. The buses will depart Denver/Boulder Sunday, June 24 and return Friday, June 29. The drive time to Telluride is approximately 6.5 hours, but there will be two scheduled stops (~ 15 minutes in duration) to allow the riders to stretch and to buy snacks, coffee/espresso, and the like. Taking the bus is the least expensive, least complicated, most relaxing transportation option and allows attendees several additional possibilities. Attendees could arrive in Denver a day or two early and take this opportunity to visit the labs in Boulder prior to going on to ICOLS-07 (or leave late and visit the labs after attending the meeting in Telluride). Of course, there are a host of other mild-to-arduous activities, such as hiking, biking, strolling and dining, in the Boulder area that can help acclimate you to the new time zone and altitude change. The number of buses and departure times offered will depend on interest in this option, but at least one couch will be reserved that will depart from Denver International Airport (DIA) no later than 1600 hrs, Sunday afternoon. Final arrangements will be made when we know your interest(s) and flight schedules. If choosing this option, please register and pay TSRC, and indicate your arrival and departure times. Guidance and/or arrangements for arrivals prior to Sunday, tours of NIST, travel to Boulder, etc., will be handled by the local organizing committee (listed below). **Note well**, if you wish to visit the NIST laboratories, security measures require a

minimum two week notification as well as your Passport information. We will be prepared to host visitors on the Saturday preceding ICOLS and the subsequent Saturday.

The second option is to continue by plane to an airport closer to Telluride. “Nearby” airports include Telluride (20 minutes away), Montrose (70 minutes), Cortez (2 hours) and Grand Junction (2 hours), but there are limited numbers of flights serving these airports and seating will be at a premium, particularly on the smaller aircraft serving the Telluride and Montrose airports. The only major airport with flights to Telluride is DIA, whereas Montrose is served by Denver, Salt Lake City, Phoenix, Houston and Dallas. Although farther away, Grand Junction is larger than Telluride and Montrose and it offers more flights. If choosing this option, please be aware that you are responsible for all arrangements and costs, including the ground transportation to and from Telluride from these airports. For simplicity, we suggest that your ground transportation arrangements be made with Telluride Express (+1 970 728 6000), which serves these nearby airports with shuttle buses, vans and buses. The cost of the round trip ticket will depend on the distance between the airport and Telluride. Expect to pay approximately \$100 from the Montrose Airport to Telluride and back; more if you fly into Grand Junction or Cortez.

The third option is a rental car from any of the airports, (including Denver and Salt Lake both approximately 6 ½ hours away) but expect to pay up to \$25/day for parking during your stay in Telluride.

Social and Recreational Activities

TSRC will record your interests in the various social and recreational activities through a drop down menu listing the activities and their nominal costs. As in the past, Wednesday afternoon will be reserved for rest and relaxation. A large variety of organized or self-guided activities and excursions will be offered (see list below). Additional programs that have attracted sufficient interest will be organized throughout the week for accompanying persons. All activities will be subject to cancellation due, for example, to lack of interest or inclement weather.

Wednesday Afternoon Activities

4-W TOUR

Trip dates: June 27, 2007
Price per adult guest: \$78 (includes gratuity)
Price per child (12 and younger): \$68
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave
Meeting time(s): 1:00 pm
Approximate return: 5:30 pm

FLY FISHING

Trip dates: June 27, 2007
Price per guest: \$190 (includes equipment, flies, license and gratuity)
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave
Meeting times: 1:00 pm
Approximate return: 5:30 pm

MOUNTAIN BIKING

Trip dates: June 27, 2007
Price per adult guest: \$89 (includes gratuity)
Minimum number of participants: 4
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave
Meeting times: 1:00 pm
Approximate return: 5:30 pm

WHITEWATER RAFTING

Trip dates: June 27, 2007
Price per adult guest: \$77 (includes gratuity)
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave,
Meeting times: 1:00 pm
Approximate return: 5:30 pm

ROCK CLIMBING HALF-DAY

Trip dates: June 27, 2007
Price per adult guest: \$125 (includes gratuity)
Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 5:30 pm

AJAX PEAK

Trip dates: June 27, 2007
Price per adult guest: \$90 (includes gratuity)
Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 5:30 pm

BEAR CREEK HIKE

Trip dates: June 27, 2007
Price per adult guest: \$25 (includes gratuity)
Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 5:00 pm

NATURE HIKE

Trip dates: June 27, 2007
Price per adult guest: \$25 (includes gratuity)

Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 4:00 pm

Additional Activities for Family and Friends

4-W TOUR

Trip dates: June 25-29, 2007
Price per adult guest: \$78 (includes gratuity)
Price per child (12 and younger): \$68
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave
Meeting times: 8:20 am and 1:50 pm each day
Approximate return: 12:00 pm and 5:30 pm

FLY FISHING

Trip dates: June 25-29, 2007
Price per guest: \$190 (includes equipment, flies, license and gratuity)
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave
Meeting times: 8:00 am and 1:30 pm each day
Approximate return: 12:30 pm and 6:00 pm

MOUNTAIN BIKING

Trip dates: June 25-29, 2007
Price per adult guest: \$89 (includes gratuity)
Minimum number of participants: 4
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave
Meeting times: 8:30 am
Approximate return: 12:30 pm

WHITEWATER RAFTING

Trip dates: June 25-29, 2007
Price per adult guest: \$77 (includes gratuity)
Meeting place: Telluride Outside/Telluride Angler, 121 W. Colorado Ave,
Meeting times: 8:00 am and 1:30 pm each day
Approximate return: 12:00 pm and 5:30 pm

ROCK CLIMBING HALF-DAY

Trip dates: June 25-29, 2007
Price per adult guest: \$125 (includes gratuity)
Meeting place: TBA
Meeting times: 8:00 am and 1:30 pm (Half-day)
Approximate return: 12:00 pm and 5:30 pm

ROCK CLIMBING FULL-DAY

Trip dates: June 25-29, 2007

Price per adult guest: \$190 (includes gratuity)
Meeting place: TBA
Meeting times: 8:00 am (Full-day)
Approximate return: 12:00 pm and 5:30 pm

SNEFFELS HIGH LINE TRAIL

Trip dates: Thurs June 87, 2007
Price per adult guest: \$90
Meeting place: TBA
Meeting times: 7:00 am
Approximate return: 4:00 pm

BEAR CREEK HIKE

Trip dates: June 22-29, 2007
Price per adult guest: \$25 (includes gratuity)
Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 5:00 pm

NATURE HIKE

Trip dates: June 22-29, 2007
Price per adult guest: \$25 (includes gratuity)
Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 4:00 pm

MESA VERDE NATIONAL PARK

Trip dates: Tues June 26, 2007
Price per adult guest: \$TBA
Meeting place: TBA
Meeting times: 7:00 am
Approximate return: 5:00 pm

BLACK CANYON OF THE GUNNISON NATIONAL PARK

Trip dates: Weds June 27, 2007
Price per adult guest: \$TBA
Meeting place: TBA
Meeting times: 7:00 am
Approximate return: 5:00 pm

HOVENWEEP NATIONAL MONUMENT

Trip dates: Thurs June 27, 2007
Price per adult guest: \$TBA
Meeting place: TBA
Meeting times: 1:00 pm
Approximate return: 4:00 pm

Timeline

Registration (\$700):	1 March – 1 May, 2007
Late registration (\$850):	after 1 May, 2007
Accommodations deadline:	1 May 2007
Poster abstract submission deadline:	1 May 2007
Invited paper submission deadline:	1 August 2007

Space is limited, so we encourage you to register early.

Conference Chairs

Leo Hollberg , NIST (hollberg@boulder.nist.gov)
Jim Bergquist, NIST (berky@boulder.nist.gov)
Mark Kasevich, Stanford University (kasevich@stanford.edu)

ICOLS secretary
Lisa Barnes, lbarnes@boulder.nist.gov
Tel. 303-497-5917, fax 303-497-6461

Program Committee

Ennio Arimondo	WonHo Jhe
Vanderlei Bagnato	Mark Kasevich
Ken Baldwin	Hidetoshi Katori
Rob Ballagh	Michèle Leduc
Victor Balykin	Eugene Polzik
Jim Bergquist	Christophe Salomon
Ignacio Cirac	Piet Schmidt
Wolfgang Ertmer	Fujio Shimizu
Allister Ferguson	Sune Svanberg
Helen Fielding	Wim Ubachs
Leo Hollberg	Mingsheng Zhan
Massimo Inguscio	

Local Organizers

Leo Hollberg
Jim Bergquist
Wayne Itano
Dietrich Leibfried
Svenja Knappe
Lisa Barnes