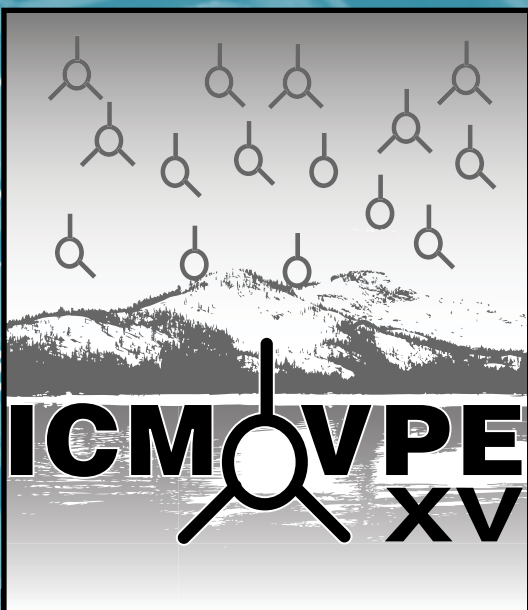


ADVANCE BROCHURE



**15th International
Conference on
Metal Organic
Vapor Phase
Epitaxy**

May 23 – 28, 2010

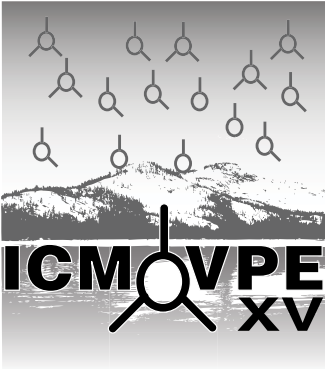
**Hyatt Regency Lake Tahoe
Incline Village, Nevada,
USA**

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May 23 – 28, 2010
Hyatt Regency Lake Tahoe
Incline Village, Nevada, USA

TECHNICAL SCOPE

The Fifteenth International Conference on Metal Organic Vapor Phase Epitaxy (ICMOVPE-XV) builds upon the strong tradition established by previous conferences by presenting the latest advances in science, technology and applications of MOVPE and related growth techniques. The objective of the conference is to gather a wide spectrum of specialists from industry, commerce, academia, and national laboratories to present the latest developments in the fundamental and applied aspects of MOVPE technology. The program is designed to provide a wide range of opportunities for formal and informal discussions, as well as presentations on unlimited topics including the following:

TOPICS

- Basic Growth Studies
- Nitrides
- Arsenides, Phosphides, Antimonides and Dilute Nitrides
- Low Bandgap Materials
- II-VI Materials and Devices
- Oxides (TCO, dielectrics)
- Novel Materials (magnetic materials, etc)
- Heteroepitaxy
- Nanostructures
- Patterned Growth and Selective Area Epitaxy
- Atomic Layer Deposition and Epitaxy
- Virtual Substrates and Epitaxial Lift-off
- In Situ Monitoring and Process Control
- In-situ Etching
- Characterization
- Growth of Devices
- Growth of Energy Technology (solid state lighting, PV, Thermoelectrics, etc)
- Equipment, Safety, Environmental and Production Issues

Metal Organic Vapor Phase Epitaxy

REGISTRATION

Advance Registration Fees

Full Conference.....\$595*

Student..... \$325*

**Fees increase by \$100 after the May 3 advance registration deadline.*

Your registration package includes:

Technical Sessions

Exhibition

Welcome Reception

Refreshment Breaks

Poster & RUMP Sessions

Conference Proceedings

Conference Banquet (Included with Full Conference registration only)

All attendees of ICMOVPE-XV, including authors and session chairs, are required to register. Badges will be required for admittance to all technical sessions and conference functions.

On-Site Registration & Advance Registrant

Badge Pick-up

Regency Foyer

Sunday, May 23..... 3 to 9 p.m.

Monday, May 24..... 7 a.m. to 5 p.m.

Tuesday, May 25..... 8 a.m. to 5 p.m.

Wednesday, May 26..... 8 a.m. to 1 p.m.

Thursday, May 27..... 8 a.m. to 5 p.m.

Friday, May 28..... 8 a.m. to noon

LATE NEWS ABSTRACTS

A limited number of Late News Abstracts will be considered and must be submitted through ProgramMaster no later than **April 30, 2010**. Accepted authors will be notified by **May 10, 2010**.

Questions?

Contact the TMS Technical Support Services Department!

Telephone: 1-724-776-9000 ext. 227 or 800-759-4TMS (U.S. and Canada only)

Email: programming@tms.org

TECHNICAL PROGRAMMING

INVITED SPEAKER (tentative)

Plenary Speaker:

Jeff Tsao, Sandia National Labs, USA, *"The Killer III-V Epi Application."*

Takashi Mukai, Nichia, Japan, *"Nitride Green Laser Diodes."*

INVITED PAPERS

Bernardette Kunert, Philipps-University Marburg, Germany, *"MOVPE Growth of Lattice Matched III/IV Materials on Silicon Substrate for Optoelectronics."*

John Geisz, National Renewable Energy Labs, USA, *"Metamorphic MOVPE Growth for High Quality Lattice-Mismatched III-V Solar Cells Junctions."*

Takashi Fukui, Hokkaido University, Japan, *"III-V Semiconductor Nanowires -From Crystal Growth to Device Applications."*

Masaki Ueno, Sumitomo Electric, Japan, *"InGaN Based True Green Laser Diodes on Novel Semi-Polar {20-21} GaN Substrates."*

Menno Kappers, University of Cambridge, UK, *"Growth And Characterization Of Polar And Nonpolar Nitride Quantum Well Structures."*

J. Randall Creighton, Sandia National Labs, USA, *"Impact of Gas-Phase and Surface Chemistry During InGaN MOVPE."*

Chang-Hee Hong, Chonbuk National University, Korea, *"Various Embedded Structures of InGaN LED Employing Selective MOCVD Growth."*

RUMP SESSIONS (Relaxed and Unscripted Manuscript Presentations)

RUMP sessions are planned for the evening of Tuesday, May 25. To submit topic ideas or participate in the panel discussion, contact the program chairs, Raj Bhat at bhatr@corning.com or Dave Bour at davidpbour@gmail.com.

PUBLICATION OF PAPERS

Conference papers will be published as a refereed special volume of the *Journal of Crystal Growth*. Details, including the manuscript deadline and formatting instructions, and information on how to purchase additional copies of the conference proceedings is available on the conference web site.

CONFERENCE PROGRAM

NETWORKING & SOCIAL EVENTS

Welcome Reception

Sunday, May 23, 7 to 9 p.m.

Reconnect with colleagues or network with new alliances during this kickoff event.

Refreshment Breaks

Hot and cold beverages will be offered in the exhibition during morning and afternoon intermissions.

Exhibitors Reception

Monday, May 24, 5 to 6:30 p.m.

Browse among the exhibitors and discover the latest services and ground-breaking products in the world of MOVPE and related growth technology in a casual setting.

Conference Banquet

Thursday, May 27, 6:30 to 9:30 p.m.

For a complete list of events, please visit the ICMOVPE Web site:

<http://www.tms.org/Meetings/Specialty/ICMOVPE-XV/events.aspx>

TMS and Social Networking

TMS has joined the world of social networking to improve its global presence and further engage members.

- Become a Fan of the TMS Page on Facebook to post your conference experiences, continue your networking connections, or post comments, discussions, conference photos or videos.
- Join the TMS LinkedIn group page to post or start discussions, or share your conference photos or view the TMS photo stream on Flickr.

CONFERENCE EXECUTIVE COMMITTEE

- Chair: Christine Wang, MIT Lincoln Laboratory, *USA*
Program Chairs: Rajaram Bhat, Corning, *USA*
Dave Bour, Applied Materials, *USA*
Publication Chairs: Catherine Caneau, Corning, *USA*
Thomas Kuech, University of Wisconsin-Madison, *USA*
Sponsorship: Russell Dupuis, Georgia Institute of Technology, *USA*
Exhibits: Bob Biefeld, Sandia National Labs, *USA*
Local Arrangements: Steve Denbaars, Univ. of California-Santa Barbara, *USA*

CONFERENCE ORGANIZING COMMITTEE

- Francois Alexandre, Alcatel-Thales, *France*
Andrew Allerman, Sandia National Labs, *USA*
Y. Aoyagi, Tokyo Institute of Technology, *Japan*
Yasuhiko Arakawa, University of Tokyo, *Japan*
Jean Decobert, Alcatel-Thales, *France*
John Geisz, NREL, *USA*
Thomas Hannappel, Helmholtz Center Berlin, *Germany*
Hilde Hardtdegen, Forschungszentrum Juelich JARA, *Germany*
Steve Hersee, University of New Mexico, *USA*
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Sung-Nam Lee, Korea Polytechnic University, *Korea*
Hideto Miyake, Mie University, *Japan*
Yves Monteil, University of Lyon, *France*
Yoshiaki Nakano, University of Tokyo, *Japan*
Joan Redwing, The Pennsylvania State University, *USA*
Alok Rudra, EPFL Lausanne, *Switzerland*
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Simon Watkins, Simon Fraser University, *Canada*
Markus Weyers, Ferdinand Braun Institute, *Germany*
Masakazu Sugiyama, University of Tokyo, *Japan*

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- Hiroshi Amano, Meijo University, *Japan*
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Stuart Irvine, Glyndwr University, *Wales*
Tom Kuech, University of Wisconsin, *USA*

Metal Organic Vapor Phase Epitaxy

INTERNATIONAL ADVISORY COMMITTEE CONTINUED

Maarten Leys, IMEC, *Belgium*

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Nigel Mason, ORS, *UK*

Kentaro Onabe, University of Tokyo, *Japan*

Abdallah Ougazzeden, Georgia Institute of Technology, Lorraine, *France*

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Gerry Stringfellow, University of Utah, *USA*

Hui Yang, Suzhou Institute of Nano-Tech, *China*

Euijoon Yoon, Seoul National University, *Korea*



EXHIBITION & SPONSORSHIP OPPORTUNITIES

In addition to a strong technical program, the ICMOVPE-XV conducts an exhibit of MOVPE technology and services. You and your organization are invited to participate in this special show. You will have the opportunity to meet the world's top MOVPE researchers and industry leaders. The specialized program of the ICMOVPE-XV attracts the industry's most interested and professional audience.

Companies who are interested in the exhibition opportunities should email requests to exhibits@tms.org or ICMOVPE Exhibitor Chair Bob Biefeld at rmbiefe@sandia.gov.

Financial support is used to offset costs of coffee breaks, social functions and conference handouts, as well as to provide travel assistance and financial aid for invited speakers and students.

All sponsors will be acknowledged and recognized on the conference Web site, posted at the registration counter, and at any social functions that they financially support.

Companies interested in sponsoring should email exhibits@tms.org or ICMOVPE Sponsor Chair Russ Dupuis at russell.dupuis@ece.gatech.edu.

Take advantage of the \$100 discounted advance registration fee through May 3, 2010.

For secure online registration or to complete the mail-in form, visit:
<http://www.tms.org/Meetings/Specialty/icmovpe-xv/home.aspx/>

REFUND POLICY

Written requests must be sent to TMS Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086 by **May 3, 2010**. A \$75 processing fee will be charged for all cancellations. No refunds will be issued after the deadline.

OBTAINING A VISA

Meeting attendees who require an international travel visa are strongly encouraged to plan ahead and begin the application process early. Visit the **ICMOVPE Housing and Travel** page on-line for more information and to generate a visa letter.

STUDENT AND TRAVEL ASSISTANCE


Student attendance is strongly encouraged at this conference. The conference has a limited budget to aid students in need of financial assistance and will be primarily provided in the form of reduced or waived registration fees. Financial aid awardees will be notified as quickly as is possible.

Submit requests to Christine Wang at wang@ll.mit.edu before **May 10, 2010** and include the following: Name, Address and Affiliation Address, Email, Aid Requested, Short Biography, Abstract (if presenting).

Metal Organic Vapor Phase Epitaxy



CONFERENCE POLICIES

 **Americans with Disabilities Act**
TMS strongly supports the federal Americans with Disabilities Act (ADA) which prohibits discrimination against, and promotes public accessibility for those with disabilities. In support of, and in compliance with, ADA, we ask those requiring specific equipment or services to contact TMS Meeting Services in advance.

Audio/Video Recording Policy

TMS reserves the right to all audio and video reproduction of presentations at TMS sponsored meetings. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication, or copyright without the express written consent of TMS and the individual authors is strictly prohibited. Contact TMS Technical Programming at (724) 776-9000, ext 212, to obtain a copy of the waiver release form.

Photography Notice

By registering for the meeting, all attendees acknowledge that they may be photographed by TMS personnel while at events. Photos may be used for promotional purposes in print and online.

Dress

Casual clothing is in order at the conference. Layered clothing is recommended for cooler days in Lake Tahoe. Temperatures may reach into the high 60's during the day and cool off at night. Comfortable walking shoes and a mid-weight coat are also recommended.

CONFERENCE LOCATION & ACCOMMODATIONS

HYATT REGENCY LAKE TAHOE

All technical programming and conference functions will take place at the Hyatt Regency Lake Tahoe in Incline Village, Nevada, USA.

Discover this alpine paradise nestled within the Sierra Mountain range! This stunning locale is the focal point of this Four Diamond Lake Tahoe hotel and the ideal setting for year-round pampering.

Enjoy the natural wonders in and around this breathtaking hotel. Take a cruise on one of the private boats or try your luck in the casino. If you crave relaxation, try a deep-tissue massage in the world-class spa, or some quiet time on the private beach. From delicious cuisine and inviting guestrooms, to luxurious amenities and varied services, you'll never forget this mountain escape at Lake Tahoe.

For more information about this property, please visit www.laketahoe.hyatt.com.

HOTEL RESERVATIONS

Conference Rates:

\$199.00 Single/ Double • \$224.00 Triple • \$249.00 Quad

Select one of three convenient ways to make your guest room reservation:

1. **Contact:** Hyatt Reservations directly at 888-421-1442, for international calls dial 402-592-6464. Reference "Minerals, Metals and Materials Conference" to receive the correct rate.
2. **Visit:** https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=1504790 to make your guest room reservation.
3. **Visit:** www.laketahoe.hyatt.com and enter your dates of stay and "g-MMMC" in the "Group/Corporate Code" box to receive the group rate.

For upgrade options, or nights outside of the available dates, please contact Hyatt Reservations directly at 1-800-233-1234.

Hotel Activities

The Hyatt is pleased to offer a 15% discount off all standard spa and salon treatment prices when booked in advance for the attendees and guests of ICMOVPE-XV. Please mention the conference at the time of booking to receive

Metal Organic Vapor Phase Epitaxy

the discount. Visit the Stillwater Spa and Salon Web site at <http://laketahoe.hyatt.com/hyatt/pure/spas> to learn about available treatments, pricing and current specials.

Please visit: <http://www.laketahoe.hyatt.com/hyatt/hotels/activities> for additional information.

CONFERENCE TOURS AND SIGHTSEEING EVENTS

To round out your total conference experience, tours and sightseeing events are being planned for attendees to explore the beauty of Lake Tahoe. For up-to-the minute details about these special events, please visit the Networking and Events link of the ICMOVPE meeting page at:

<http://www.tms.org/Meetings/Specialty/ICMOVPE-XV/events.aspx>

TRANSPORTATION

Air Travel

The Hyatt Regency Lake Tahoe is easily accessible from the Reno/Tahoe International Airport, and approximately 45 minutes away by car. The airport offers 24-hour service with 11 airlines servicing more than 160 arrivals and departures daily, including non-stop daily service to Chicago, Dallas, Denver, Las Vegas, Los Angeles, San Diego and Seattle.

Shuttle Service

Airport transportation is recommended through North Lake Tahoe Express, which offers multiple shuttles daily direct from the Reno/Tahoe International Airport and the Hyatt Regency Lake Tahoe.

Rates and hours are available at their Web site: www.northlaketahoeexpress.com or by calling 866-216-5222 directly. Guests should book the "Blue" line shuttle for service to Incline Village. Advance reservations are highly recommended.

Car Rental

TMS has arranged discounted car rental through Hertz. To reserve your special meeting rates, please provide the TMS discount code "CV#01YS0004" when making reservations online at www.hertz.com. You may also call Hertz directly at 800-654-2240 (In the U.S. and Canada) or 405-749-4434.



ICMOVPE XV



register on line at:
[http://www.tms.org/Meetings/Specialty/
icmovpe-xv/home.aspx/](http://www.tms.org/Meetings/Specialty/icmovpe-xv/home.aspx)

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