

# **Workshop on Outstanding Issues in ICRF Technology**

## **Organized by Oak Ridge National Laboratory**

This workshop will be held on May 9-10, 2001, immediately following the 14<sup>th</sup> Topical Conference on Radiofrequency Power in Plasmas. It will take place at the Conference venue, the Embassy Suites Mandalay Beach Resort in Oxnard, California.

### **Object of the workshop**

To identify critical technology issues related to increasing the power handling capability and reliability of ICRF systems, and initiate a coordinated, community-wide effort to address them.

### **Structure of the Workshop**

May 9, afternoon A series of ~ 30 m presentations (including time for questions and group discussion) to review operations on present and previous devices. What works and what doesn't? What causes power limits under various operating conditions? What components are troublesome? What are the shortcomings in present antenna loading models?

May 10, morning (Thurs.): ~30 m talks (including time for questions and group discussion) on how present limitations on ICRF launcher capabilities are being addressed: Present and planned R&D activities to increase power handling and reliability. Proposals for next-generation ICRF launchers. New approaches to coupling high power density, feed circuit configurations, and impedance matching. Improvements in antenna modeling.

May 10, afternoon (Thurs.): Summary discussions (~ 2 h) - How can R&D work and past experience at various laboratories best be used to improve the performance of present ICRF launchers and the design of future ones? What problems are being addressed adequately, and what problems require additional investigation? How can a coordinated effort be brought to bear on solving outstanding problems?

### **Registration/Presentations**

You can register online for the Workshop at <http://www.ornl.gov/fed/icrf2001/>, or submit the attached form. If you are interested in presenting, please indicate this in the area provided on the online registration form. There is no additional fee charged to attend this workshop. If you have any problem accessing the form, or any other inquiries, please address them to Gwen Green at ORNL by email: [greenga@ornl.gov](mailto:greenga@ornl.gov), phone: 865-574-0964 or fax: 865-576-7926.

### **Hotel Accommodations**

The Conference hotel for the 14<sup>th</sup> Topical Conference on Radiofrequency Power in Plasmas, the Embassy Suites Mandalay Beach resort, has agreed to extend the Conference room rate through Thursday night for Workshop attendees. However, a room block has not been reserved for the additional nights, so please make hotel arrangements as early as possible.

### **Additional information**

Additional information including the Workshop agenda will be posted as soon as it becomes available on the Workshop website at <http://www.ornl.gov/fed/icrf2001/>. The Workshop organizers are Dr. Richard Goulding ([gouldingrh@ornl.gov](mailto:gouldingrh@ornl.gov), 865-574-6480), and Dr. David Swain ([swaindw@ornl.gov](mailto:swaindw@ornl.gov), 865-574-1163).

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**May 9-10, 2001**  
**Embassy Suites Mandalay Beach Resort**  
**Oxnard, California**

**REGISTRATION FORM**

I am planning to attend the workshop

**Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Address 1:** \_\_\_\_\_

**Address 2:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State or Province:** \_\_\_\_\_

**Country:** \_\_\_\_\_ **Zip or Postal Code:** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_ **Email:** \_\_\_\_\_

I am tentatively planning to give a presentation during the following session(s):

**Wednesday, May 9 afternoon session**

**Thursday, May 10 morning session**

Note: Presentations will be scheduled for ~ 30 m including questions and discussion. Please submit titles by February 16, 2001 via email to Gwen Green (greenga@ornl.gov)

Please mail or fax this registration to Gwen Green, Oak Ridge National Laboratory, PO Box 2009, Oak Ridge, TN, 37831-8071, USA, fax:865-576-7926, or send an email to greenga@ornl.gov containing the requested information.