

**EPRI**

# CALL FOR PAPERS

## **Second EPRI Phased Array Inspection Seminar**

*Hosted by École de Technologie Supérieure de Montréal  
(ÉTS – Université du Québec)*



**August 13–15, 2001**  
**ÉTS – Université du Québec**  
**Montréal, Québec, Canada**

**EPRI**  
**NDE**  
Center

# Background

Phased array ultrasonic examination technology applies to various disciplines, including medicine, the military, radar, and radiotelescopy, as well as to inservice inspection of electricity-generating power plants. Inservice inspections have become increasingly important in the safety and economic considerations that affect the viable operation of nuclear and other power plants. As economic competition intensifies in the technology arena, the demand for accuracy and efficiency of inspection techniques will also increase. These demands may be met in many cases by inspection techniques that use ultrasonic phased arrays.

A single array probe can be controlled electronically to generate ultrasonic beams of many different angles and to focus at many different points on the inspected component. This capability opens possibilities for achieving improved examination coverage, increased accuracy, and reduced examination time. Array technology is not new; however, the potential for new applications is increasing with the availability of high-performance piezocomposite array probes and more affordable industrial array control systems.

## Scope

The Second EPRI Phased Array Inspection Seminar will focus on multidiscipline applications of array technology that have been achieved to date or are planned in the near future. Presentations will be made by developers of inspection techniques; inspection services vendors; and utility, medical, and military personnel who have performed inspections using phased arrays. The purpose of the seminar will be to educate utility and other inspection personnel about the state of development and field deployment of industrial phased array inspection applications.

### Fees

EPRI Nuclear Power Group Members	\$250
EPRI Non-Nuclear Power Group Members	\$350
Government and University Personnel	\$400
Organizations Ineligible for EPRI Membership*	\$500
Speakers (one per paper)	\$200

\*Includes consultants, vendors, and manufacturers



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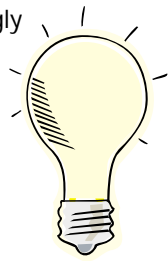
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Conference Website: [www.epri.com](http://www.epri.com)

# Call for Papers

EPRI extends an invitation for technical papers to be presented at the Second EPRI Phased Array Inspection Seminar, August 13–15, 2001, in Montréal, Canada. This seminar will be hosted by and conducted at the École de Technologie Supérieure (ÉTS) de Montréal of the Université du Québec (1100 Rue Notre-Dame Ouest). Personnel from utilities, medicine, the military, service vendors, inspection equipment manufacturers, universities, research laboratories, and other related organizations are encouraged to submit one-page abstracts prior to April 30, 2001. Authors of abstracts accepted for presentation will be contacted by May 15, 2001. Final papers must be prepared in accordance with conference guidelines (supplied upon acceptance of abstract). Final papers are due July 13, 2001. Abstracts must clearly explain the paper's content, objectives, methodologies, and conclusions. Those stressing utility applications and experiences are strongly encouraged. Topics should focus on:

- Introductory material on phased array principles
- Development of array applications
- Performance demonstration of array techniques  
Field deployment of array techniques and lessons
- Medical phased array trends for signal and image  
post-processing, beamforming architectures
- Medical 4-D rendering
- Sonar beamforming architectures in time domain or Fourier domain
- Sonar signal processing
- Phased array antennas for microwave communication



A reception will be held on Sunday evening, August 12, at the Delta Centre-Ville Hotel. Vendors are invited to participate in a tabletop display during that event. All interested parties should contact Susan Otto-Rodgers at 704/547-6072 or [sjotto@epri.com](mailto:sjotto@epri.com).

## Accommodations

Persons attending the Second EPRI Phased Array Inspection Seminar should secure their own hotel reservations. A block of rooms has been reserved at the Delta Centre-Ville Hotel in Montréal. To ensure accommodations, contact the hotel directly by July 11, 2001, and refer to the Group Name: EPRI. After that date, neither availability nor the negotiated rate can be guaranteed, and attendees may be charged the prevailing hotel rates. A small block of rooms has been reserved for the weekend prior to the event for those attendees wishing to arrive early.

Delta Centre-Ville	514/879-1370
777 Rue University	\$199/night Club Floor Guest Room*
Montréal, Québec, Canada H3C 3Z7	\$169/night Deluxe Guest Room*

\*The quoted rates are in Canadian Dollars and are quoted per room per night. (To check current exchange rates, access the following web site: <http://www.xe.net/ucc/>).

## ***Air Transportation***

US Airways has been designated as the official conference airline. To take advantage of discounted rates, call US Airways' Group and Meeting Reservation Office toll free at 877/874-7687, 8:00 A.M. to 9:30 P.M. Eastern Time. Refer to Gold File Number 78171648.

## ***Customs and Immigration Information***

Proof of citizenship is required when entering Canada. Attendees from countries other than the U.S.A. usually need a passport and, in certain cases, a visa. To determine which documents you require, contact the Canadian Embassy or Canadian Consulate in your country.

Canada has an open border with the U.S. Citizens of the U.S. do not require passports or visas and can normally cross the U.S./Canadian border without difficulty or delay. However, proof of citizenship is required. Documents such as a passport, birth certificate plus photo I.D., or other proof of citizenship are acceptable. Residents of the U.S. who are citizens of other countries should have a passport and an Alien Registration Receipt Card (U.S. Form 1-551), also known as a green card. For further information, contact the nearest Canadian Consulate or the Canadian Embassy at 202/682-1740.

Items such as cameras, tape recorders, or personal computers should be registered with U.S. Customs before leaving the U.S. to prove they were purchased before entering Canada. Personal baggage, including clothing, cameras, tape recorders, personal computers, etc., are exempt from duties and taxes if they accompany the attendee and are declared to Canadian Customs upon entering Canada.

U.S. residents returning from Canada after more than 48 hours may take back, free of duty, \$400.00 worth of articles for personal or household use, based on fair retail value in Canada. These articles must accompany the individual. (If all or part of this personal exemption has been claimed in the preceding 30 days, visitors are limited to a \$25.00 individual exemption.) Re-entry into the U.S. can be simplified if travelers list all purchases before they reach the border, keep sales receipts handy, and pack purchases separately for ease of inspection.

## ***Seminar Registration***

Advance registration and payment are required. The registration fee includes continental breakfasts, luncheons, coffee breaks, one evening reception, and conference materials. Registration forms must be accompanied with payment. Cancellation notices must be received three working days before the start of the seminar; otherwise, no refund will be granted. Substitutions are permissible.



# Second EPRI Phased Array Inspection Seminar

August 13–15, 2001

Montréal, Canada

Please print or attach business card:

Name \_\_\_\_\_

Title \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City / State / Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Title of Paper: \_\_\_\_\_

Please check the appropriate box:

- |   |       |
|---|-------|
| <input type="checkbox"/> EPRI Nuclear Power Group Members             | \$250 |
| <input type="checkbox"/> EPRI Non-Nuclear Power Group Members         | \$350 |
| <input type="checkbox"/> Government and University Personnel          | \$400 |
| <input type="checkbox"/> Organizations Ineligible for EPRI Membership | \$500 |
| <input type="checkbox"/> Speakers (one per paper)                     | \$200 |

Method of Payment--Registration Fees Must Be Paid in Advance

- Check Enclosed (made payable to EPRI)  
 Credit Card:  American Express  MasterCard  Visa

Account Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

If you have a disability and may require accommodation to fully participate or if you have any special dietary requirements, please explain here or contact the Communications Manager directly: \_\_\_\_\_

Please return this form to:  
Susan Otto-Rodgers  
NDE Communications Manager  
1300 W.T. Harris Blvd.  
Charlotte, NC 28262  
Phone: 704/547-6072  
Fax: 704/547-6168