



## INVITATION

Dear Colleagues,

It is our great pleasure to announce that the International Symposium on Nonlinear Acoustics (ISNA), which has been postponed because of the aftermath of the major disasters by the earthquakes and the terrible accidents at Fukushima nuclear power plants, is rescheduled to be held from May 21 to 24 in 2012 at the International Conference Center of Waseda University in Tokyo, Japan. This is the 19th symposium since 1968 and is held by the invitation of the Nonlinear Acoustics Society of Japan (NASJ).

The scope of the symposium ranges widely from traditional topics in nonlinear acoustics to emergent ones in various interdisciplinary researches. The symposium consists of invited lectures by eminent scientists announced in this circular, and oral and poster presentations, which will be chosen from all submissions on peer-review-basis. Proceedings of the symposium will be published by the American Institute of Physics in one volume of the Conference Proceedings series.

All members of the NASJ cordially invite you to participate in this symposium by providing a forum for eminent scientists and engineers to discuss problems and exchange ideas in an academic atmosphere. As Tokyo is one of the busiest capitals in the world and the conference site is located just in the heart of the metropolitan area, you will be able to observe and experience both modern and traditional aspects of Japanese life. You may also discover beautiful scenery and many features of interest in the countryside. We hope that you may partake in some sightseeing or travel by yourself and enjoy your stay in Japan in addition to participating in the symposium.

We are very much looking forward to meeting you in Tokyo.

Sincerely,

Tomoo Kamakura:  
Member of International Organizing Committee

Nobumasa Sugimoto:  
President of Nonlinear Acoustics Society of Japan  
Co-chairmen of the 19th ISNA

## SCOPE OF THE SYMPOSIUM

- 1 General theory of nonlinear acoustics
- 2 Nonlinear acoustics in fluids
- 3 Nonlinear acoustics in multiphase and porous media, and cavitation phenomena
- 4 Nonlinear acoustics in solids and structures
- 5 Nonlinear acoustics of reacting, relaxing media, and physical kinetics
- 6 Nonlinear acoustics in medicine and biology.
- 7 Thermoacoustics
- 8 Nonlinear acoustics of atmosphere, ocean, and earth, and nonlinear underwater acoustics
- 9 Nonlinear aero- and hydroacoustics
- 10 Nonlinear acoustics and optics
- 11 General experimental methods
- 12 Devices and industrial applications of nonlinear acoustics.
- 13 Other topics in nonlinear acoustics



## INVITED LECTURES

### Radiation stress and acoustic streaming: historical roots and modern applications

Oleg V. Rudenko & Armen P. Sarvazyan\*

Moscow State University (Russia) & Blekinge Institute of Technology (Sweden), Artann Laboratories Inc. (USA)\*

### Sources and propagation of atmospherical acoustic shock waves

François Coulouvrat

University of Pierre and Marie Curie (France)

### Nonlinear acoustic/seismic waves in earthquake processes

Paul A. Johnson

Los Alamos National Laboratory (USA)

### Nonlinear aspects of modern ultrasound applications in medicine

Vera A. Khokhlova

Moscow State University (Russia) & University of Washington (USA)

### Understanding of thermoacoustic phenomena and their applications

Tetsushi Biwa

Tohoku University (Japan)

### Conditions inside a collapsing bubble

Kenneth S. Suslick

University of Illinois at Urbana Champaign (USA)

## VENUE

The 19th ISNA will be held at the International Conference Center of Waseda University, which has a main hall (Ibuka Hall) and three conference rooms. Further information is available at [www.waseda.jp](http://www.waseda.jp)



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Y. Yamazaki	T. Yano	K. Yasui



## REGISTRATION FEE

Early registration before February 20 ————— JPY 50,000  
 Regular registration ————— JPY 60,000  
 Registration of students ————— JPY 30,000



## IMPORTANT DATES

2011	Nov	20	Deadline for resubmission of abstract
2012	Jan	20	Notification of acceptance
2012	Feb	20	Deadline for early registration
2012	May	24	Deadline for final manuscripts



## FOR REGISTRATION

Please visit the official website of the 19th ISNA:

[www.isna19.com](http://www.isna19.com)

The website presents further information on accommodation, travel and visas, etc. as well as on manuscript submission. Information will be updated continually. Please check the website regularly.

The early registration is mandatory for presenting authors. For the others as well, we advise strongly to do so.

The 19th ISNA maintains a no-spam policy.



## CONTACT INFORMATION

Inquiries should be e-mailed to [isna19@isna19.com](mailto:isna19@isna19.com)

Meet you in Tokyo!



# The 19<sup>th</sup> International Symposium on Nonlinear Acoustics

SPONSORS:



May 21-24,  
2012

Tokyo,  
Japan

New Circular in  
Rescheduled Version