



# Winter School on THERAPEUTIC ULTRASOUND

Les HOUCHES,  
France

March 3th - 8nd  
2019

# Information about the School



**Directors:** Gail ter Haar (Sutton),  
Vera Khokhlova (Moscow) & Jean-Francois Aubry (Paris)

**Organized by:**  
Mathieu Pernot, Thomas Deffieux (Paris)  
& Cyril Lafon (Lyon)

**Objectives:**  
This Winter School will explore the rapidly emerging field of therapeutic ultrasound. Topics will range from an introduction to the physics and biophysics necessary for understanding these techniques through to their clinical application.

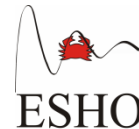
The objectives of the School are to provide a current overview of the field as a contextual background for the work of individuals participating; to encourage discussion and shared consideration of different approaches to understanding ultrasound therapy. Participants will be expected to have a sound basis in their own subject at honours degree level or equivalent, and to be active in the study of minimally invasive therapies in the broadest sense. The course will be given at postgraduate level, and we envisage the course being of primary benefit to two groups: One includes PhD students and new post-docs whose research area falls somewhere within the broad sweep of minimally invasive therapy. The other comprises practising clinical scientists, active in one or more areas of the field, who want a better understanding of current techniques and progress, and wish to anticipate new developments. This is a broad and complex topic in which the synergy of a multidisciplinary approach is particularly valuable. The Winter School will encourage this approach. Each topic will be covered by an Invited Speaker who is a world authority in the field.

**Location:** The institute is located at Les Houches, near Chamonix, in the French Alps, <http://houches.ujf-grenoble.fr/>

**School Sponsors include:**



FOCUSED ULTRASOUND  
SURGERY FOUNDATION



European Society for  
Hyperthermic Oncology



Acoustical Society of America

The premier international scientific society in acoustics, dedicated to increasing and diffusing the knowledge of acoustics and its practical applications.





# Participants of the School







# Lecturers

Lecturer	Institute	Country
J.F. Aubry	Institut Langevin, Paris	France
V. Khokhlova	Moscow State University, Moscow	Russia
G. ter Haar	Institute of Cancer Research, Sutton	UK
R. Roy	University of Oxford	UK
L. Crum	University of Washington, Seattle	USA
M. Horsman	Aarhus University	Denmark
J.L. Guey	Imasonic, Besançon	France
B. Quesson	Université Bordeaux	France
T. Deffieux	Institut Langevin, Paris	France
F. Steinmeyer	Technische Hochschule Nuremberg	Germany
C. Lafon	Lab Tau, Lyon	France
O. Sapozhnikov	Moscow State University, Moscow	Russia
J. Hwang	Stanford University	USA
D. Jeanmonod	SoniModul SA	Switzerland
U. Oelfke	Institute of Cancer Research, London	UK
B. Werner	University Children's Hospital, Zurich	Switzerland
H. Gruell	Eindhoven University of Technology	Netherlands
B. Hylander	Roswell Park Comprehensive Cancer Center	USA
R. Cleveland	University of Oxford	UK



# Participants from MSU, Russia



O. Sapozhnikov



S. Petrosyan



V. Khokhlova



E. Ponomarchuk



A. Krokmal



D. Nikolaev



# Lecturers



J.F. Aubry



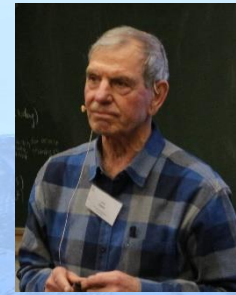
V. Khokhlova



G. ter Haar



R. Roy



L. Crum



U. Oelfke



H. Gruell



B. Quesson



T. Deffieux



F. Stenmeyer



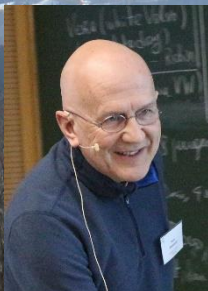
C. Lafon



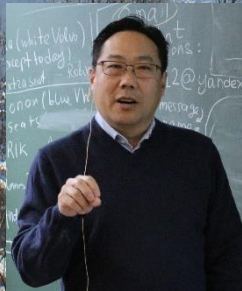
O. Sapozhnikov



M. Horsman



D. Jeanmonod



J. Hwang



B. Hylander



J.L. Guey



B. Werner



R. Cleveland



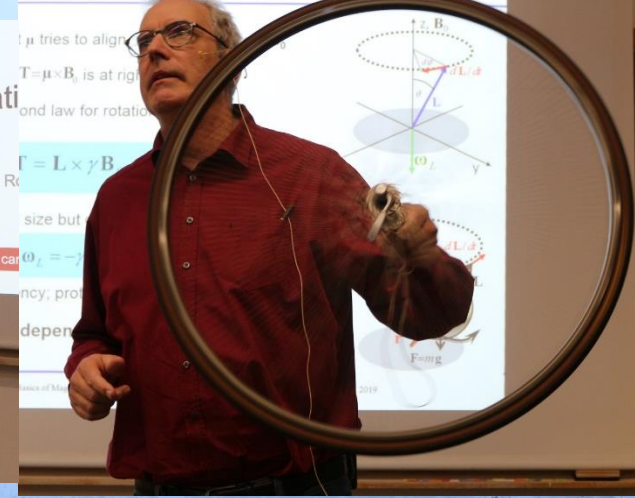
J.F. Aubry



G. Ter Haar

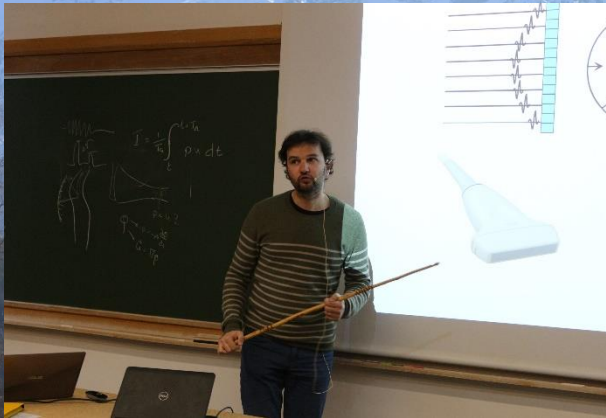


Precession of Spins



# Lecturers

F. Stenmeyer



T. Deffieux



B. Quesson



R. Roy

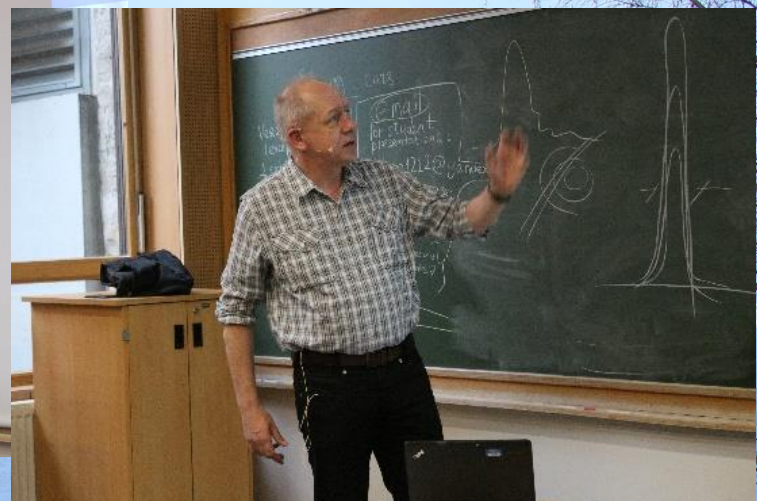




H. Gruell



C. Lafon



U. Oelfke

# Lecturers



O. Sapozhnikov



V. Khokhlova



L. Crum





M. Horsman



J. Hwang



J.L. Guey



B. Hylander



R. Cleveland



D. Jeanmonod



B. Werner



# Lecture room





# Accommodation





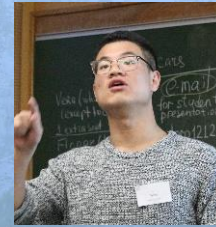
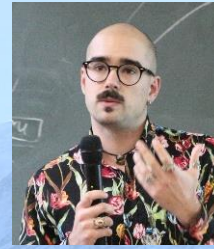


# Coffee breaks





# Student presentations





# Restaurant





# In the evenings





# Skiing





# Award Ceremony



## Best student presentations



Active participation

Active questioner

Youngest participant





See you in 2021

