

EUROPEAN SUMMER CAMPUS

EUROPEAN SUMMER UNIVERSITY

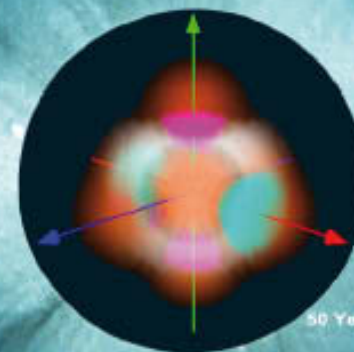
FOR STUDENTS IN PHYSICS HAVING COMPLETED 3 YEARS OF UNIVERSITY STUDIES

UFR DE PHYSIQUE ET INGÉNIERIE

STRASBOURG, FRANCE

JUNE 28 - JULY 4, 2009

- LECTURES
- WORKSHOPS (EXPERIMENTS, THEORY, ENVIRONMENT),
- ROUND TABLES :
 - MEDICAL APPLICATIONS
 - ENERGY PRODUCTION



Atomic and Nuclear Models evolution with Quantum Theory
B. Fernandez, GANIL Caen

From Elementary Particles to Nuclei and their Interactions
J. Dudek, IPHC and UoS Strasbourg

Exotic Nuclear Matter: Clusters and Halos in Nuclei
M. Marques, LPC Caen

N-Body Systems and the Nuclear Shell Model
F. Nowacki, IPHC-CNRS Strasbourg

From Magic Numbers to Exotic Nuclei
O. Sorlin, GANIL Caen

Stars and Nuclei, from Stellar Evolution to Cosmology
A. Lefebvre-Schuhl, CSNSM Orsay

Mean Field Approximation
P. H. Heenen, Brussels University

Science with Big Scale Instruments:
- New Accelerators: SPIRAL 2
M. Lewinowicz, GANIL Caen

- New Instruments: AGATA
G. Duchêne, IPHC-CNRS Strasbourg

Super Heavy Elements and the Limits of Nuclear Stability
D. Ackermann, GSI Darmstadt

Exotic Nuclear Geometries, Symmetries and Quantum Numbers
B. Gall, IPHC and UoS Strasbourg

50 Years of Radioactivity Monitoring of the Environment
R. Guertler, LRME / IRSN

Will Neutrons help saving the Climate
G. Rudolf, IPHC-CNRS Strasbourg

Nuclear Matter at High Density, the Quark Gluon Plasma (QGP)
Ph. Crochet, LPC Clermont

Nuclear Applications for Medical Treatment and Imaging
G. Monfaret, LPC Clermont

Nuclear applications for energy production
S. David, IPN Orsay

THE SECRETS OF THE ATOMIC NUCLEUS

Secretariat :

UFR Physique et Ingénierie
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- <http://esc.u-strasbg.fr>

Mme Anne Klebes-Pelissier,
Vice-présidente Relations Internationales
Francis Fratani
Université de Strasbourg

Mme Catherine Schach et M Michel Heibel,
(representing the Mayor of Strasbourg, Roland Ries)
Enseignement supérieur, Recherche et Innovation
Développement économique et Attractivité
Communauté Urbaine de Strasbourg

Jean-Pierre Münch,
Directeur de l'UFR Physique et Ingénierie

Daniel Huss, Marc Drillon, Daniel Mathiot, Jean-Francois Legrand
IPHC, IPCMS, InESS, ICS
laboratories of the UdS and CNRS

A Summer University

What is it?

European Summer Universities were proposed by the French Minister of Education in 2000 to encourage the mobility of students within Europe. In spring 2009 the name of the programme changed to “campus européen d’Été” or “European Summer Campus”.

8th European Summer University organised by the physics faculty of the Université de Strasbourg and the Institut Pluridisciplinaire Hubert Curien (IPHC) of the CNRS.

The goal of this Summer University is twofold: first we have a scientific programme explaining to you some of the exciting and very recent developments in the field of Nuclear Physics and its applications.

Second we would like to stimulate discussions between you, the other students, but also, very important, with the lecturers and the other researchers, who you will meet during this week.

We also have foreseen several excursions to give you the opportunity to learn about Europe, Strasbourg and Alsace.

Organization

How does it work

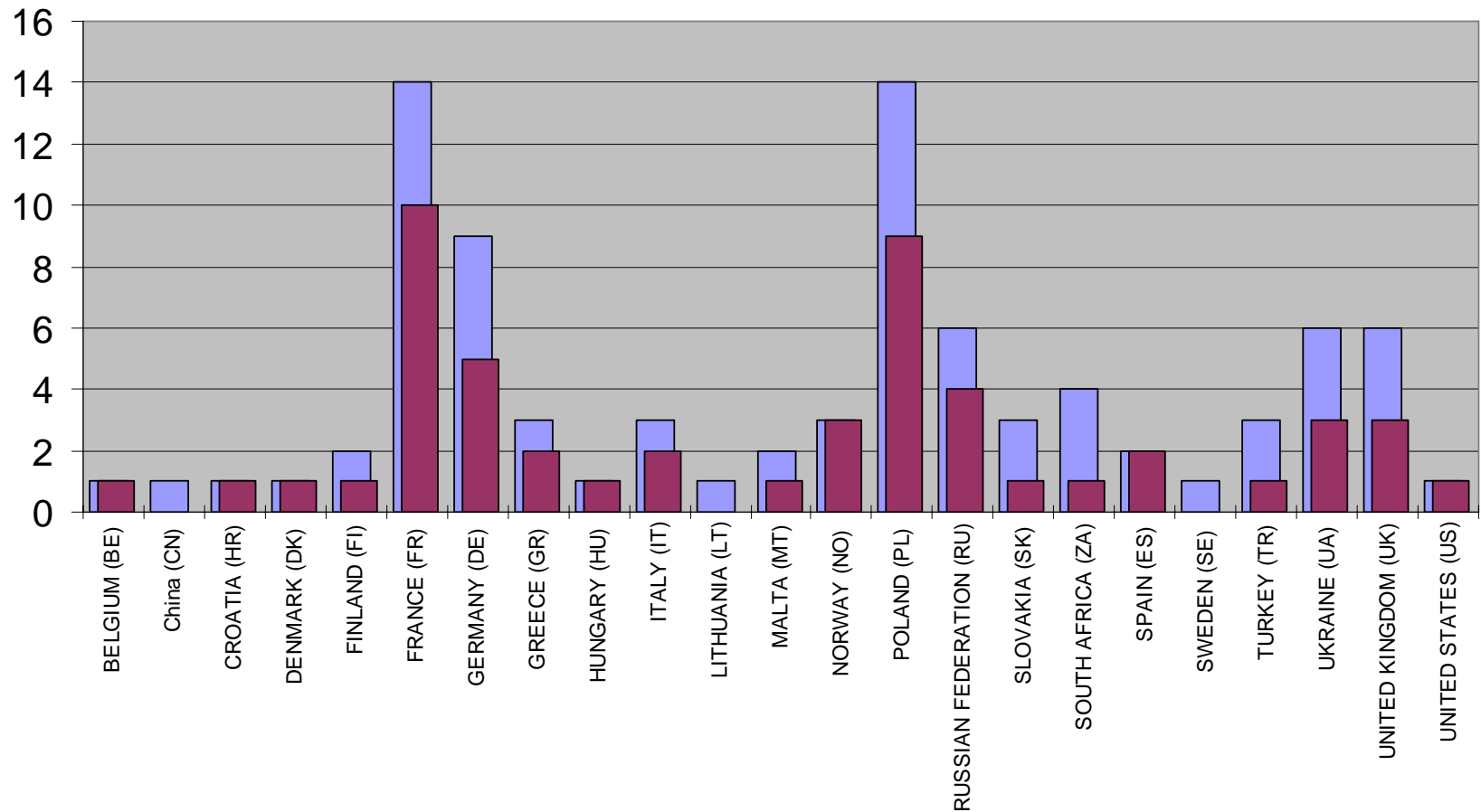
- **Conference Secretariat, [Annick Coulibaly](#)**
- **Programme and Organizing Committee**
 - **Benoit Gall and Ulrich Goerlach, Prof., UdS, IPHC, Strasbourg**

Philippe DESSAGNE, Gilbert DUCHENE, Olivier DORVAUX, Christian Finck, Marc ROUSSEAU, Dominique CURIEN, Florent HAAS, Christian BECK, Louise STUTTGÉ, Sandrine COURTIN, Dorothée Lebhertz, Julien PIOT, Marianne DUFOUR, Johann BARTEL, Frédéric NOWACKI, Jerzy DUDEK, Hervé MOLIQUE, Maëlle KERVENO, Gérard RUDOLF, Abdelmjid NOURREDDINE

- **Technical Support**
 - » **N. Busser (WWW), O. Hunzinger (PCs)**
 - » **N. Rudolf and Ch. Helfer (vidéo recording)**
 - » **P. Gilbert, (Finance, papers)**
 - » **C. Berger (IPHC, bags, badges etc.)**
- **Many others (coffees etc.)**

Students

applications and participants
23 nationalities



Scientific Programme

- Sessions of (2x45+15min) lectures
- Workshops at the IPHC (campus Cronenbourg)
- **PLEASE DO ASK QUESTIONS!!!**

Don't be afraid to speak incorrect English

Cultural and Social Programme

- Important part of this Summer University
- Learn about Europe, the European Union and other countries (from the **other** students)
- Learn about Alsace
- Use the free time to explore Strasbourg