

*To the International community of Particle Physicists
interested in Neutrino Physics*

ANNOUNCEMENT of the NuFact03 SUMMER INSTITUTE

2nd International School on the Neutrino Factory

May 27th to June 4, 2003

Pridwin Hotel, Shelter Island, New York

A Summer School is being organized to introduce researchers and students to both the particle and accelerator physics aspects of a Neutrino Factory. This will take place on Shelter Island in New York from Tuesday, May 27th to Saturday, June 4th. This School, the second of its kind, is organized in conjunction with the 5th International Neutrino Factory Workshop, NuFact03, which will take place at Columbia University in New York City the following week, June 5-11,2003.

The School will be an excellent introduction to the NuFact03 Workshop and we expect that a large fraction of the attendees, both students and lecturers, will profit from the opportunity to attend the Workshop.

The following topics will be covered:

- Physics of massive neutrinos
- Current views of leptogenesis and baryogenesis
- The impact of SuperBeams and a Neutrino Factory on neutrino physics
- Detectors of neutrino oscillations: concepts and R&D requirements
- Other physics at a Neutrino Factory complex
- The basic accelerator physics of a Neutrino Factory
- The technical challenges of a Neutrino Factory
- A muon ionization cooling demonstration experiment
- Fixed field alternating gradient acceleration

We are assembling a mix of short lectures and tutorials. The following speakers have confirmed their participation:

J. Scott Berg (BNL)

Richard Fernow (BNL)

Stephen Geer (FNAL)

Deborah Harris (FNAL)

Daniel Kaplan (IIT)

Boris Kayser (FNAL)

Hisakazu Minakata (Tokyo Metropolitan U.)

Takaaki Kajita (Tokyo U.)

Kirk McDonald (Princeton U.)

Kevin McFarland (U. of Rochester)

Robert Palmer (BNL)

Grahame Rees (Rutherford)

Linda Spentzouris (IIT)

The preparation of an enthusiastic, multi-national group of young scientists, capable of embracing the multiple skills required, will be essential in ensuring the success of the long term effort towards a Neutrino Factory. The Neutrino Factory initiative can only be successful with a collaborative effort from the neutrino community. We would be delighted to receive your suggestions on how to optimize the nature, format and content of the School at all stages of its organization.

The main area where you can help tremendously, of course, is by **making young colleagues in your group aware of the NuFact03 School and by helping them to participate in it.** Participation in the NuFact03 Workshop the following week as well would be ideal. We hope to see you there also.

Robert Palmer & Vittorio Palladino
Directors of the School

A Web site of the NuFact03 School is being assembled at

http://home.fnal.gov/~dharris/nufact03_school.html

Details on the organization of the School and of the application procedure are available there.