

European Workshop on Turbulence in Cryogenic HElium (EuTuCHe)



Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Monday, 23 April 2007 09:00 (10 minutes)

Primary author: CONFERENCE-ROOM, At

Presenter: AYMAR, Robert (CERN, Director General)

Contribution ID: 1

Type: **not specified**

Introduction to the workshop

Monday, 23 April 2007 09:10 (10 minutes)

Presenter: PETAGNA, Paolo (CERN)

Contribution ID: 2

Type: **not specified**

Opportunities, rules (and tricks) in the EC FP7 programme

Monday, 23 April 2007 09:20 (40 minutes)

Presenter: GUIGNARD, Gilbert (CERN)

Contribution ID: 3

Type: **not specified**

Talk: The Brookhaven Project: programmes, achievements, show-stoppers

Monday, 23 April 2007 10:30 (30 minutes)

Presenter: SREENIVASAN, Katepalli R. (ICTP Trieste)

Contribution ID: 4

Type: **not specified**

Talk: Experience coming from the Year-long Warwick Symposium

Monday, 23 April 2007 11:00 (30 minutes)

Presenter: NAZARENKO, Sergey (Warwick Univ.)

Contribution ID: 5

Type: **not specified**

**Discussion chaired by Eberhard BODENSCHATZ
(MPI): Is it possible (and how) to better exploit
synergies between the different "Turbulence
Communities"**

Monday, 23 April 2007 11:30 (1 hour)

Contribution ID: 6

Type: **not specified**

Talk: The State of the Art in Hydrodynamic Turbulence: Past Successes and Future Challenges

Monday, 23 April 2007 13:30 (40 minutes)

Presenter: PROCACCIA, Itamar

Contribution ID: 7

Type: **not specified**

Talk: Applications of Cryogenics to Classical and Quantum Fluid Dynamics

Monday, 23 April 2007 14:10 (40 minutes)

The enormous variety of applications of cryogenics to fluid mechanics is not widely appreciated. In this talk we will explore the properties of cryogenic fluids and their applications to branches of fluid dynamics, including fundamental research in classical and quantum fluids and in various branches of engineering.

Presenter: DONNELLY, Russell (Univ. of Oregon)

Contribution ID: 8

Type: **not specified**

**Discussion chaired by Detlef LOHSE (Twente Univ.):
1) What are the open problems that turbulence
research should address? 2) What are the "dream"
experiments that one would ask from a new large
multi-purpose facility?**

Monday, 23 April 2007 14:50 (1h 10m)

Contribution ID: 9

Type: **not specified**

Resume discussion chaired by Detlef LOHSE (Twente Univ.)

Monday, 23 April 2007 16:30 (1h 30m)

Contribution ID: **10**

Type: **not specified**

Talk: Fluid mechanics with cryogenic helium: a few examples

Tuesday, 24 April 2007 08:30 (30 minutes)

Presenter: CASTAING, Bernard (ENS Lyon)

Contribution ID: 11

Type: **not specified**

Talk: Exotic opportunities with superfluid helium

Tuesday, 24 April 2007 09:00 (40 minutes)

Presenters: BARENGHI, Carlo (Univ. of Newcastle); SKRBK, Ladislav (Charles Univ.)

Contribution ID: 12

Type: **not specified**

Talk: Presentation of present large scale He hydrodynamic facilities in CEA and ICTP

Tuesday, 24 April 2007 09:40 (50 minutes)

Presenters: ROUSSET, Bernard (CEA Grenoble); NIEMELA, Joseph (ICTP Trieste)

Contribution ID: 13

Type: **not specified**

Talk: Presentation of large scale He hydrodynamic facilities used and in preparation at CERN

Tuesday, 24 April 2007 11:00 (30 minutes)

Presenters: PIROTTE, Olivier (CERN); ROCHE, Philippe-E. (Inst. NEEL, CNRS-UJF)

Contribution ID: 14

Type: **not specified**

Discussion chaired by Ph-E. Roche: Which general problems can be tackled with the existing facilities and how could they be enhanced if funds were available?

Tuesday, 24 April 2007 11:30 (1h 30m)

Contribution ID: 15

Type: **not specified**

Talk (prepared by Steven Van Sciver): PIV techniques in superfluid helium

Tuesday, 24 April 2007 14:00 (30 minutes)

Presenter: BARENGHI, Carlo (Univ. of Newcastle)

Contribution ID: 16

Type: **not specified**

**Discussion chaired by John Christos VASSILICOS
(Imperial College London): What contribution from
non-cryogenic experimentalists and from the
numerical community?**

Tuesday, 24 April 2007 14:30 (1h 30m)

Contribution ID: 17

Type: **not specified**

Resume discussion: What contribution from non-cryogenic experimentalists and from the numerical community?

Tuesday, 24 April 2007 16:30 (1h 30m)

Contribution ID: 18

Type: **not specified**

**Discussion chaired by Paolo PETAGNA (CERN):
Preparation of the work packages to be included in a
IA proposal**

Tuesday, 24 April 2007 18:00 (1 hour)

Contribution ID: 19

Type: **not specified**

**Discussion chaired by Paolo PETAGNA (CERN):
Preparation of the work packages to be included in a
IA proposal**

Wednesday, 25 April 2007 08:30 (2 hours)

Contribution ID: 20

Type: **not specified**

Resume discussion: Preparation of the work packages to be included in a IA proposal

Wednesday, 25 April 2007 11:00 (2 hours)

Contribution ID: 21

Type: **not specified**

Talks: Cryogenics at CERN

Wednesday, 25 April 2007 14:00 (1 hour)

Presenter: HAUG, Friedrich (CERN)

Contribution ID: 22

Type: **not specified**

Conclusions

Wednesday, 25 April 2007 16:30 (1 hour)

Contribution ID: 23

Type: **not specified**

Additional contributions

Monday, 23 April 2007 08:00 (0 minutes)

Track Classification: End of the workshop