13th Workshop on RF Superconductivity (SRF2007)
Jiankui HAO

http://www.pku.edu.cn/academic/srf2007/

Peking University, Beijing, P.R.China
History of SRF Series

- The International Workshop on RF Superconductivity (SRF) was founded in 1980.
- A platform of communication for the application of superconductivity for particle acceleration.
  - To communicate the latest findings in the field of RF superconductivity
  - present new developments
  - stimulate controversial discussions
  - establish contacts to near-by research areas
  - serve as an educational guide for newcomers
- Held every two years around the world.
Past SRF Workshops

- 1st: KFK, Karlsruhe, Germany, 1980
- 2nd: CERN, Geneva, Switzerland, 1984
- 3rd: ANL, Argonne, USA, 1988
- 4th: KEK, Tsukuba, Japan, 1990
- 5th: DESY, Hamburg, Germany, 1991
- 6th: CEBAF, Newport News, USA, 1993
- 7th: CEA/Saclay, Gif-sur-Yvette, France, 1995
- 8th: Abano, Italy, 1997
- 9th: LANL, Santa Fe, USA, 1999
- 10th: KEK, Tsukuba, Japan, 2001
- 11th: Travemünde/Lübeck, Germany, 2003
- 12th: Cornell Univ., Ithaca, USA, 2005
Since SRF2003

- A special session was devoted to doctoral dissertations on RF superconductivity topics and work of young researchers.
- Awards for students/young researchers
- Tutorial sessions for newcomers on various aspects of the field.
13th International Workshop on RF Superconductivity

Peking University, Beijing, China 2007
International Program Committee
C. Antoine (Saclay)
J. Chen (Peking Univ., Workshop Chairman)
H. Edwards (Fermilab)
T. Grimm (MSU)
M. Kelly (ANL)
P. Kneisel (Jlab)
J. Knobloch (BESSY)
R. Losito (CERN)
S. Noguchi (KEK)
H. Padamsee (Cornell Univ.)
V. Palmieri (INFN-LNL and Padua Univ.)
D. Proch (DESY)
T. Tajima (LANL)

Advisory Committee
Hesheng Chen (IHEP)
Xiangwan Du (CAE)
Shouxian Fang (IHEP)
Zizhao Gan (Peking Univ.)
Duohui He (CPAS)
Jilin He (OTIC)
Shin-ichi Kurokawa (KEK)
T. D. Lee (BIMP, PKU)
Wenging Shen (NSFC, SSRF)
M. Tigner (Cornell Univ., Chairman of TTC)
Naiyan Wang (CIAE)
C. N. Yang (Tsinghua Univ.)

Local Organizing Committee
Zhi-Yu Guo (Peking University, Co-Chairman)
Kui Zhao (Peking University, Co-Chairman)
Zheng Chen (Peking Univ.)
D. Proch (DESY, Advisor)
Zhenya Chen (Peking University)
Ke-Xin Liu (Peking University)
Chuanxiang Tang (Tsinghua University)
Jiu-Qing Wang (IHEP)
Bao-Cheng Zhang (Peking University)
SRF2007 workshop is sponsored by

National Natural Science Foundation of China

Students’ travel grants are sponsored by

ACCEL

NIOWAVE

AMAC

AMAC

東京電解

Tokyo Denki

東芝電子管デバイス株式会社

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THALES

ELECTRON DEVICES

Awards are sponsored by

Heraeus

ATI Wah Chang
SRF2007 Topics

- Advance of new technology of SRF
- Fundamental topics for RF Superconductivity
- New and important projects
- Industrialization of SRF technology
- Others
### SRF2007 Program Overview

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<td>08:30-09:00</td>
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<td>Opening address</td>
<td>Basic SRF Topics</td>
<td>Student and Young</td>
<td>Advances in SRF</td>
<td>Future projects and new ideas I</td>
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<td>Researchers Session</td>
<td>technology III</td>
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<td>09:00-09:30</td>
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<td>Progress Reports I</td>
<td>Basic SRF Topics</td>
<td>Student and Young</td>
<td>Hot Topic I</td>
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<td>Researchers Session II</td>
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<td>11:00-12:00</td>
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<td>Progress Reports II</td>
<td>Advances in SRF</td>
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<td>Hot Topic II</td>
<td>Future projects and new ideas II (11:00-11:45)</td>
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<td>(09:00-23:00)</td>
<td>Technology I</td>
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<td>14:00-16:00</td>
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<td>18:30-21:00</td>
<td>Welcome reception</td>
<td>Entertainment (17:00-21:30)</td>
<td>IPC Meeting (18:30-21:30)</td>
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<td>Lab Tours (14:15-)</td>
<td>Excursion and Banquet (14:30-20:00)</td>
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<td>Time</td>
<td>Thursday Oct. 11</td>
<td>Friday Oct. 12</td>
<td>Saturday Oct. 13</td>
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<td>8:30-8:35</td>
<td>opening</td>
<td>Tutorial 3a: Design issues of input and higher mode couplers.</td>
<td>Tutorial 5a: Fundamentals of cryogenic and module engineering.</td>
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<td>8:35-10:00</td>
<td><strong>Tutorial 1a:</strong> Basic principles of Superconductivity. A. Gurevich (FSU)</td>
<td>Tutorial 3b: Design issues of tuners, I.I.RF, controls. J. Delaney (JLAB)</td>
<td>B. Petersen (DESY)</td>
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<td>10:40-12:10</td>
<td><strong>Tutorial 1b:</strong> Basic principles of RF Superconductivity. J. Knobloch (BESSY)</td>
<td>Tutorial 5b: Operating aspects of SCRF with beam. M. Liepe (Cornell)</td>
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<td>13:30-15:00</td>
<td><strong>Tutorial 2a:</strong> Cavity design: high beta. J. Sekutowicz (DESY)</td>
<td><strong>Tutorial 4a1:</strong> Cavity fabrication and treatment. A. Madeisen (DESY)</td>
<td><strong>Tutorial 6a:</strong> SCRF material other than Niobium. A. Valente (JLAB)</td>
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<td><strong>Tutorial 4a2:</strong> Diagnostic methods (eddy current scanning, T-mapping, X-ray mapping, mode analysis, FE-scanning...). W Singer (DESY)</td>
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<td>15:40-17:10</td>
<td><strong>Tutorial 2b:</strong> Cavity design: low beta. J. Delaney (JLAB)</td>
<td>Tutorial 4b: Limits in cavity performance (no beam). D. Reschke (DESY)</td>
<td><strong>Tutorial 6b:</strong> Alternative fabrication techniques: Thin Film Deposition Technique. Enzo Palmieri (INFN-LNL)</td>
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SRF2007 Information

- **Participants**
  - For workshop: 263 registered outside China and 83 from China
  - For tutorial: 83
  - Institutions: 56

- **Contributions**
  - Invited Talks: 48
  - Students presentation: 9
  - Posters: 168
  - Discussion: hot topics I & II
Proceedings Editing

- Not using SPMS for abstract and paper submission
- Paper submission
  - Only some of the papers were submitted via internet before the conference
  - Most papers will be submitted at the conference site
  - A lot of work for editing
Proceedings Editing Team

- Paper Editing Team on site
  - Zhao, Kui (PKU)
  - Hao, Jiankui (PKU)
  - Huang, Senlin (PKU)
  - Shirakawa, Akihiro (KEK)
  - Katagiri, Hiroaki (KEK)
  - Other colleagues (PKU)

- For publication of proceedings
  - Zhao, Kui (PKU)
  - Hao, Jiankui (PKU)
  - Huang, Senlin (PKU)
Proceedings Editing

- Problems?
  - sure, should be solved easily
- Troubles?
  - I hope no
- Publication of Proceedings
  - soon
Thanks