



Report

13th Workshop on RF Superconductivity (SRF2007)

Oct. 14-19, 2007

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, French, 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



SRF Series

- 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



13th International Workshop on RF Superconductivity

Organized by
Peking University

Date: October 14-19, 2007
Tutorial: October 11-13, 2007
Venue: Peking University, Beijing, China

Topics

Advance of New Technology of SRF
Fundamental Topics for SRF
New and Important Projects
Industrialization of SRF Technology
Other Topics



Chairman: CHEN Jia'er

International Program Committee

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

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Shouxian Fang (IHEP)
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Wending Shen (NSFC, SSRF)
Xiangwan Du (CAE)
Zizhao Gan (Peking Univ.)

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Secretary

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SRF2007 workshop is sponsored by



Students' travel grants are sponsored by



Awards are sponsored by





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

	Sunday, Oct. 14	Monday, Oct. 15	Tuesday, Oct.16	Wednesday, Oct. 17	Thursday, Oct. 18	Friday, Oct. 19
08:00-08:30	Registration (09:00-23:00)	Registration (08:00-8:50)				
08:30-09:00		Opening address	Basic SRF Topics	Student and Young Researchers Session I (08:30-9:20)	Advances in SRF technology III	Future projects and new ideas I
09:00-09:30				Student and Young Researchers Session II (09:20-10:30)	Hot Topic I	
09:30-10:30				Progress Reports I (09:30-10:40)	Coffee Break	
10:30-11:00		Coffee Break	Coffee Break			
11:00-12:00		Progress Reports II	Advances in SRF Technology I	Advances in SRF technology II	Hot Topic II	Future projects and new ideas II (11:00-11:45)
12:00-13:00		Lunch			Industrialization on SRF Accelerators	Awards / Closing Ceremony (11:45-13:00)
13:00-14:00						
14:00-16:00		Progress Reports III	Poster and Industry Exhibition	Poster and Industry Exhibition	Excursion and Banquet (14:30-20:00)	
16:00-18:30		Coffee Break				
18:30-18:30	Progress Reports IV	Poster and Industry Exhibition	Poster and Industry Exhibition			
18:30-21:00	Welcome reception		Entertainment (17:00-21:30)	IPC Meeting (18:30-21:30)	Lab Tours (14:15-)	



Tutorial (Oct. 11-13)

	Thursday Oct.11	Friday Oct.12	Saturday Oct. 13
8:30- 8:35	opening	Tutorial 3a: Design issues of input and higher mode couplers. W.Moeller (DESY)	Tutorial 5a: Fundamentals of cryogenic and module engineering. B.Petersen (DESY)
8:35-10:00	Tutorial 1a: Basic principles of Superconductivity. A.Gurevich (FSU)		
10:00- 10:05	discussion	discussion	discussion
10:05- 10:20	discussion		
10:20- 10:40	coffee break	coffee break	coffee break
10:40- 12:10	Tutorial 1b: Basic principles of RF Superconductivity. J.Knobloch (BESSY)	Tutorial 3b: Design issues of tuners, LLRF, controls. J.Delayen (JLAB)	Tutorial 5b: Operating aspects of SCRF with beam. M.Liepe (Cornell)
12:10- 12:30	discussion	discussion	discussion
12:30- 13:30	lunch	lunch	lunch
13:30- 15:00	Tutorial 2a: Cavity design: high beta. J.Sekutowicz (DESY)	Tutorial 4a1: Cavity fabrication and treatment. A.Matheisen (DESY) Tutorial 4a2: Diagnostic methods (eddy current scanning, T-mapping, X-ray mapping, mode analysis, FE-scanning....). W.Singer (DESY)	Tutorial 6a: SCRF material other than Niobium. A.Valente (JLAB)
15:00-15:20	discussion	discussion	discussion
15:20- 15:40	coffee break	coffee break	coffee break
15:40- 17:10	Tutorial 2b: Cavity design: low beta. J.Delayen (JLAB)	Tutorial 4b: Limits in cavity performance (no beam). D.Reschke (DESY)	Tutorial 6b: Alternative fabrication techniques: Thin Film Deposition Technique. Enzo.Palmieri (INFN-LNL)
17:10- 17:30	discussion	discussion	discussion



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