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Title: The 2nd workshop on the SCRF Technology and  
Industrialization for the ILC  
- a satellite workshop of SRF2011

Date: July 24, 2011, (8:30 - 16:00)

Place: Sheraton Chicago Hotel & Towers  
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Objectives:

- Exchange information on the industrialization models,
- Discuss cooperation and partnership between industry and laboratories
- Develop possible industrialization model for the ILC SCRF Technology

Agenda can be found at:

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=5182>

The agenda is in preparation, and presentation proposals welcome to  
be submitted to the workshop program chair:

[e-mail: kerby@fnal.gov](mailto:kerby@fnal.gov)

Further information:

Please contact the workshop organizing chair:

[e-mail: akira.yamamoto@kek.jp](mailto:akira.yamamoto@kek.jp)

4:00 p.m.

**REGISTRATION and STUDENT POSTER  
SESSION**

4:15 p.m.

4:30 p.m.

4:45 p.m.

5:00 p.m.

5:15 p.m.

5:30 p.m.

5:45 p.m.

6:00 p.m.

**RECEPTION**

6:15 p.m.

6:30 p.m.

6:45 p.m.

7:00 p.m.

7:15 p.m.

7:30 p.m.

7:45 p.m.

8:00 p.m.

		Topic	Speaker	Notes
8:00 a.m.	<b>Welcome</b>	Welcome and Conference Kickoff	Donald Levy, (VP for Research and National Labs, University of Chicago)	8:00 - 8:10 AM
8:15 a.m.	<b>Keynote Speaker</b>	Accelerators for the Future	Walter Henning (ANL)	8:10 - 8:40 AM
8:30 a.m.				
8:45 a.m.	<b>Overview of SRF Challenges for Projects Recent and New</b> <i>Chair: Jens Knobloch-HZB</i> Electron Linacs Recirculating Machines	Challenges in SRF Module Production for XFEL	Detlef Reschke (DESY)	8:40 - 9:05 AM
9:00 a.m.		Advances in SRF development for ILC	Akira Yamamoto (KEK)	9:05 - 9:30 AM
9:15 a.m.		Recent SRF Developments for ERLs	Georg Hoffstaetter (CLASSE)	9:30 - 9:55 AM
9:30 a.m.		SRF Challenges for Improving Operational Electron Linacs	Charles Reece (JLAB)	9:55 - 10:15 AM
9:45 a.m.				
10:00 a.m.				
10:15 a.m.	<b>Coffee Break</b>			
10:30 a.m.	<b>10:15-10:45 am</b>			
10:45 a.m.	<b>Overview of SRF Challenges for Projects Recent and New</b> <i>Chair: Jean Roger Delayen - ODU</i> Ion Linacs	SRF Development for High Energy Physics	M Champion (FNAL)	10:45 - 11:10 AM
11:00 a.m.		Advances in SRF for Low- $\beta$ Ion Linacs	Sebastion Bousson (IPN)	11:10 - 11:35 AM
11:15 a.m.		Advances in SRF for Neutron Sources	Sang-Ho Kim (SNS)	11:35 - 12:00 PM
11:30 a.m.		Survey of SRF guns	Sergey Belomestnykh(BNL)	12:00 - 12:25 PM
11:45 a.m.		Operational Experience with SRF Cavities for Light Sources	Morten Jensen (Diamond)	12:25 - 12:45 PM
12:00 p.m.				
12:15 p.m.				
12:30 p.m.				
12:45 p.m.		<b>Source of Quench producing defects (setup for hot topics)</b>	Rong Li Geng (JLab)	12:45 - 1:00 PM
1:00 p.m.	<b>Group Photo</b>			
1:15 p.m.	<b>Lunch</b> <b>1:15-2:30 p.m.</b>			
1:30 p.m.				
1:45 p.m.				
2:00 p.m.				
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2:30 p.m.	<b>POSTER SESSIONS</b>			
2:45 p.m.				
3:00 p.m.				
3:15 p.m.				
3:30 p.m.				
3:45 p.m.				
4:00 p.m.	<b>Coffee Break</b>			
4:15 p.m.	<b>4:00-4:30 p.m.</b>			
4:30 p.m.	<b>POSTER SESSIONS</b>			
4:45 p.m.				
5:00 p.m.				
5:15 p.m.				
5:30 p.m.				
5:45 p.m.				
6:00 p.m.	<b>Hot Topic</b>	<b>Source of Quench producing defects (low and high field)</b>	Moderator: R. Geng (JLab)	
6:15 p.m.				
6:30 p.m.				
6:45 p.m.				

		Topic	Speaker	
8:00 a.m.	<b>New Materials/Techniques</b> Theoretical advances Material studies ALD/Thin Film <i>Chair: Matthias Liepe - CLASSE</i>	Atmospheric Surface Treatments to SC Cavities	V. Palmieri (INFN/LNL)	8:00 - 8:30 AM
8:15 a.m.		Multilayer coatings: Opportunities and Challenges	Alexander Gurevich (ODU)	8:30 - 8:55 AM
8:30 a.m.		Magnetic Screening of NbN multilayer samples	Claire Antoine (CEA/DSM/IRFU)	8:55 - 9:15 AM
8:45 a.m.		Magnesium DiBoride Films for SRF Cavity Applications	Tsuyoshi Tajima( LANL)	9:15 - 9:35 AM
9:00 a.m.		The Superheating Field of Niobium: Theory and Experiment	Nicholas Valles (CLASSE)*	9:35 - 9:55 AM
9:15 a.m.		Deposition of Nb and other SC with High Power Magnetron Sputtering	Andre Anders (LBNL)	9:55 - 10:15 AM
9:30 a.m.				
9:45 a.m.				
10:00 a.m.				
10:15 a.m.	<b>Coffee Break</b> <b>10:15-10:45 am</b>			
10:30 a.m.				
10:45 a.m.	<b>New Materials/Techniques</b> Theoretical advances Material studies ALD/Thin Film <i>Chair: Claire Antoine - CEA/DSM/IRFU</i>	Energetic condensation growth of Nb films	Mahadevan Krishnan (Alameda Science Co.)	10:45 - 11:05 AM
11:00 a.m.		Summary of the Symposium on Ingot Nb and new results on fundamental studies of large-grain Nb	Guanluigi Ciovati (JLab)	11:05 - 11:25 AM
11:15 a.m.		<b>Testing the RF Properties of Novel Superconducting Materials</b>	Jiquan Guo (SLAC)	11:25 - 11:45 PM
11:30 a.m.		Muon Spin Rotation/Relaxation Studies of Nb for SRF applications	Anna Grassellino (TRIUMF)	11:45 - 12:05 PM
11:45 a.m.		New Approaches to Nb Thin Film Coating	Sergio Calatroni (CERN)	12:05 - 12:25 PM
12:00 p.m.		Nb films - Substrates, Nucleation & Crystal growth	Anne-Marie Valente-Feliciano (JLab)	12:25 - 12:45 PM
12:15 p.m.		Magnesium DiBoride Films for SRF Cavities	Daniel Agassi(NSWC)	12:45 - 1:00 PM
12:30 p.m.				
12:45 p.m.				
1:00 p.m.		Medium Field Q-slope and Paths to high-Q operation (setup for Hot topic)	W. Weingarten (CERN)	1:00-1:15 PM
1:15 p.m.	<b>Lunch</b> <b>1:15-2:30 p.m.</b>			
1:30 p.m.				
1:45 p.m.				
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2:15 p.m.	<b>POSTER SESSIONS</b>			
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4:00 p.m.	<b>Coffee Break</b> <b>4:00-4:30 p.m.</b>			
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4:30 p.m.	<b>POSTER SESSIONS</b>			
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5:45 p.m.				
6:00 p.m.	<b>Hot Topic</b>	<b>Medium Field Q-slope and Paths to high-Q operation</b>	Moderator: W. Weingarten (CERN)	
6:15 p.m.				
6:30 p.m.				
6:45 p.m.				
6:45 p.m.				



		Topic	Speaker			
8:00 a.m.	<b><math>\beta=1</math> Cavities</b>  <b>Design, Status and R&amp;D</b>  <i>Chair: Helen Edwards - Fermilab</i>	Test results of the international S1-Global cryomodule	Y (Kirk) Yamamoto (KEK)	8:00 - 8:20 AM		
8:15 a.m.		Gradient R&D in the US	J. Ozelis (FNAL)	8:20 - 8:40 AM		
8:30 a.m.		Compact Superconducting Cavities for Deflecting and Crabbing Applications	J. Delayen (Jlab)	8:40 - 9:00 AM		
8:45 a.m.		Quarter Wave Resonators for beta $\sim 1$ Accelerators	I. Ben-Zvi (BNL)	9:00 - 9:20 AM		
9:00 a.m.		The SC CW LINAC demonstrator: SRF technology at GSI	Sasha Michat (GSI)	9:20 - 9:40 AM		
9:15 a.m.		Mechanical Design Considerations for $\beta=1$ Cavities	Ofelia Capatina (CERN)	9:40 - 10:00 AM		
9:30 a.m.		Single-cell SC Cavity Development in India	Avinash Puntambekar (RRCAT)	10:00-10:15 AM		
9:45 a.m.						
10:00 a.m.						
10:15 a.m.	<b>Coffee Break</b> <b>10:15-10:45 am</b>					
10:30 a.m.						
10:45 a.m.	<b><math>\beta&lt;1</math> Cavities</b> <b>Design, Status and R&amp;D</b>  Elliptical, Spoke, Half-Wave, Quarter-Wave CW + High Q  <i>Chair: Wolfgang Weingarten - CERN</i>	Project-X Cavity and Cryomodule Development	Camille Ginsburg (FNAL)	10:45 - 11:05 AM		
11:00 a.m.		Vertical Test Restuls of the IFMIF Cavity Prototype and Cryomodules Dev.	Fabienne Orsini (CEA-Saclay)	11:05 - 11:25 AM		
11:15 a.m.						
11:30 a.m.		Status of the Reaccelerator Facility for Rare Isotopes	Daniela Leitner (MSU)	11:25 - 11:45 AM		
11:45 a.m.		SRF Advances for ATLAS and other $\beta<1$ Applications	Mike Kelly (ANL)	11:45 - 12:00 PM		
12:00 p.m.		SPL Cavity Development	Guillaume Olry (IPNO)	12:00 - 12:15 PM		
12:15 p.m.		Recent Developments in SRF at TRIUMF	Robert Laxdal (TRIUMF)	12:15 - 12:30 PM		
12:30 p.m.		HIE ISOLDE Quarter Wave Nb/Cu Cavity	Dr. Matteo Pasini (CERN)	12:30 - 12:45 PM		
12:45 p.m.	Student Poster Award and Talk	TBD	12:45 - 1:00 PM			
1:00 p.m.		<b>Standard Recipe for Cavity Fab/Preparation (setup for hot topics)</b>	Takayuki Saeki (KEK)	1:00 - 1:15 PM		
1:15 p.m.	<b>Lunch</b> <b>1:15-2:30 p.m.</b>					
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2:15 p.m.	<b>POSTER SESSIONS</b>					
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4:00 p.m.	<b>Coffee Break</b> <b>4:00-4:30 p.m.</b>					
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4:30 p.m.	<b>POSTER SESSIONS</b>					
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5:45 p.m.						
6:00 p.m.	<b>Hot Topic</b>	<b>Standard Recipe for Cavity Fab/Preparation</b>	Moderator: Takayuki Saeki (KEK)			
6:15 p.m.						
6:30 p.m.						
6:45 p.m.						

		Topic	Speaker			
8:00 a.m.	<b>SRF Technology</b> Cryomodules Tuners Couplers Innovative ancillary systems  <i>Chair: Shuichi Noguchi - KEK</i>	Adaptive Compensation for Lorentz Force detuning in Superconducting RF Cavities	Warren Shappert (FNAL)	8:00 - 8:20 AM		
8:15 a.m.		Innovative Tuner Designs for $\beta < 1$ SRF Cavities	Zachary Conway (ANL)	8:20 - 8:40 AM		
8:30 a.m.		Recent progress in HOM damping from around the world	Mattias Liepe (Cornell)	8:40 - 9:00 AM		
8:45 a.m.		Power Coupler for Spiral-2	Yolanda Gomez Martinez (LPSC)	9:00 - 9:20 AM		
9:00 a.m.		Overview of cw Input Couplers for ERL	Hiroshi Sakai (KEK)	9:20 - 9:40 AM		
9:15 a.m.		Construction of cERL cryomodules for injector and main linac	Kensei Umemori (KEK)	9:40 - 10:00 AM		
9:30 a.m.		SRF Photoinjector Tests at HoBiCat	Axel Neuman (Bessy)	10:00 - 10:15 AM		
9:45 a.m.						
10:00 a.m.						
10:15 a.m.	<b>Coffee Break</b>					
10:30 a.m.	<b>10:15-10:45 am</b>					
10:45 a.m.	<b>New/Emerging SRF Capability &amp; Applications</b>  <i>Chair: Jia-er Chen - PKU/IHIP</i>	SRF Activities at Peking University (Spoke Cavity/SRF company)	Jiankui Hao (PKU)	10:45 - 11:05 AM		
11:00 a.m.		RF and Beam Test of the DC-SRF Injector of PKU-SETF	Feng Zhu (PKU)	11:05 - 11:25 AM		
11:15 a.m.		<b>Chinese Plans for ADS and CSNS</b>	Sinian Fu (IHEP)	11:25 - 11:45 AM		
11:30 a.m.		SRF Accelerator for Indian ADS Program: Present and Future Prospects	Pitamber Singh (BARC)	11:45 - 12:05 PM		
11:45 a.m.		Crab Crossing for LHC Upgrade	Rama Calaga (BNL)	12:05 - 12:25 PM		
12:00 p.m.		The ESS Accelerator	Mats Lindroos (ESS)	12:25 - 12:45 PM		
12:15 p.m.						
12:30 p.m.	<b>Conf. Closeout</b>					
12:45 p.m.	<b>Student/Early career award</b>			12:45 - 1:00 PM		
1:00 p.m.	<b>TOURS TO ANL or FNAL</b>					
1:15 p.m.						
1:30 p.m.	<b>LUNCH (Box Lunches on Buses)</b>					
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6:45 p.m.	<b>CONFERENCE ENDS</b>					