

**WAMS2004**  
**Workshop on Accelerator Magnet Superconductors**

19.3.2004

**CARE EU program**

**N3 network (Hadron Colliders)-Advance in Accelerator Magnet Technology**

**Archamps (near CERN)**

**22 March 2004**

h.9.00	h.9.15	<b>L. Rossi</b>	<b>Welcome and Scope of the workshop</b>
<b>Chair Ph. Lebrun</b>			<b>SESSION I : Review of needs for accelerators magnets programs and needs for Sc</b>
h.9.15	h.10.00	L. Bottura	Need of high field and/or pulsed field Sc magnets for HEP Colliders
h.10.00	h.10.45	D. Leroy	Requirements on Sc materials, strands and cables for the future needs
<b>h.10.45</b>	<b>h.11.00</b>	<b>coffee break</b>	
h.11.00	h.11.30	E. Salpietro	The ITER Sc magnets program
h.11.30	h.12.00	A. Yamamoto	Status and plan for superconducting magnet development at KEK
h.12.00	h.12.30	J. Strait	The USA LARP high field magnet program
<b>h.12.30</b>	<b>h.14.00</b>	<b>LUNCH</b>	
<b>Chair E. Salpietro</b>			<b>SESSION II : Review of Sc programs for high field</b>
h.14.00	h.14.45	R. Scanlan	The USA experience on Nb <sub>3</sub> Sn and Bi-based superconductors and future plans
h.14.45	h.15.30	D. Larbalestier	Thoughts on the competitive merits of Nb <sub>3</sub> Sn, Nb-Ti-Ta and MgB <sub>2</sub>
h.15.30	h.16.00	V. Pantsyrnyi	Nb <sub>3</sub> Sn and HF material development at the Bochvar Institute
<b>h.16.00</b>	<b>h.16.15</b>	<b>coffee break</b>	
h.16.15	h.17.00	T. Takeuchi	Status and perspective of the Nb <sub>3</sub> Al development in Japan
h.17.00	h.17.30	D. Uglietti	Strain dependence of j <sub>c</sub> in Nb <sub>3</sub> Sn, MgB <sub>2</sub> and Bi,Pb(2223)
h.17.30	h.18.00	J.L. Duchateau	The Nb <sub>3</sub> Sn for ITER and CEA activities
h.18.00	h.18.30	A. Della Corte	The activities of ENEA on Sc developments

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<b>Chair A. Devred</b>			<b>SESSION III: Review of HTs and MgB2 programs</b>
h.9.00	h.9.45	H.C. Freyhardt	Panorama of the coated conductor developments in EU
h.9.45	h.10.15	G. Grasso	Bi-2223 developments at INFM-Genova
h.10.15	h.10.45	S. Schlachter	Status and perspectives of MgB2
<b>h.10.45</b>	<b>h.11.00</b>	<b>coffee break</b>	
h.11.00	h.11.30	R. Musenich	The INFN research program on MgB2
h.11.30	h.12.00	R. Fluekiger	Nb3Sn and MgB2 developments in Geneva
<b>h.12.00</b>	<b>h.13.30</b>	<b>LUNCH</b>	
<b>Chair D. Leroy</b>			<b>SESSION IV: Review of European Industry</b>
h.13.30	h.14.00	Ch. Verwaerde	Alstom plan and activities on LTS and Nb3Sn materials
h.14.00	h.14.30	J.H.Lindenhovius	SMI activities and plans on PIT Nb3Sn
h.14.30	h.15.00	H. Krauth	EAS activities and plans on LTS and HTS
h.15.00	h.15.30	R. Liikamaa	OK-EM activities and plans on LTS and HTS materials
<b>h.15.30</b>	<b>h.15.45</b>	<b>coffee break</b>	
h.15.45	h.16.00	J. Bock	Nexans activities and plans on HTS materials
h.16.00	h.16.30	G. Grasso	Columbus activities and plans on MgB2
h.16.30	h.17.00	S. Zannella	The activities and plans of Edison on HTS and MgB2
h.17.00	h.17.30	J. Rieger	Siemens activities in superconductivity
h.17.30	h.18.30	<b>Panel discussion Ph. Lebrun</b>	<b>how to collaborate in a frame of Industrial competition?</b> <b>The US-DOE model (R. Scanlan)</b> <b>The ITER model (P. Bruzzone)</b>
<b>h.19.30</b>	<b>Social dinner</b>		

**24 March 2004**

<b>Chair D. Larbalestier</b>			<b>SESSION V : Cables and testing facilities</b>
h.9.00	h.9.30	R. Scanlan	Rutherford cables for High Field in the US
h.9.30	h.10.00	P. Bruzzone	High Field cables development for ITER
h.10.00	h.10.30	D. Leroy	Cable design and R&D for NED
<b>h.10.30</b>	<b>h.10.45</b>	<b>coffee break</b>	
h.10.45	h.11.15	A. Ghosh	Cable design for pulsed Sc magnets (cos-theta design)
h.11.15	h.11.45	A. Kovalenko	Cable design and related issues in the superferric design
h.11.45	h.12.15	F. Schmidt	Review of transmission line cables
h.12.15	h.13.00	A. den Ouden	Review of capabilities and measuring facilities in EU laboratories
<b>h.13.00</b>	<b>h.14.15</b>	<b>LUNCH</b>	
<b>Chair A. Yamamoto</b>			<b>SESSION VI : winding technology</b>
h.14.15	h.14.45	E. Baynham	Nb3Sn Accelerator magnets - Insulation technology review
h.14.45	h.15.15	S. Gourlay	The point of view of the winding technique wrt Sc and cable properties
h.15.15	h.16.15	<b>Panel discussion W. Scandale</b>	<b>Key points - Developing lines - open questions - what-to-do in EU</b>
<b>h.16.15</b>	<b>h.16.30</b>	<b>L. Rossi</b>	<b>Summary and conclusions</b>

<b>Reminder for network participants</b>			
<b>24 March</b>	evening	NED ESAC	Meeting by invitation only (40/5-A01+E25)
<b>25 March</b>	all day	CARE Network	First plenary meeting of the working package 1 (Advanced on Accelerator Magnet Technology) at CERN. Room 160-1-009 (tbc)
<b>25 March</b>	afternoon	NED steering Cttee	Meeting by invitation only (at CERN) - Room 40/4-C01