

Registration

Regular: The fee is 120 € which covers lectures, coffee breaks and a social event.

Registration can be made by returning the application form which is available on <http://www.itep.kit.edu/hts4fusion2011>

The number of participants to the workshop is limited (first-come/first-served)

Hotel Reservation

A block of rooms has been reserved at

- hotel Kübler in center of Karlsruhe (single room 74€ incl. breakfast)
<http://www.hotel-kuebler.de>

and at

- hotel Schröcker Tor in Leopoldshafen near KIT Campus North (single room 40 € incl. breakfast)
<http://www.hotel-schroecker-tor.de>

Please book your hotel exclusively through Mrs. R. Rotondo
E-Mail: Rosa.Rotondo@KIT.edu

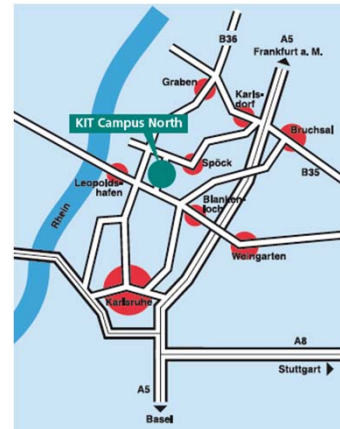
Contact

Please send your application form before April 30th to

Mrs. R. Rotondo
Karlsruhe Institute of Technology
Institute for Technical Physics
76344 Eggenstein-Leopoldshafen / Germany
Phone: +49 (0) 721 608 24294
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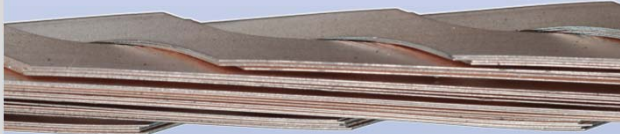
Location

The workshop will be held at KIT Campus North, about 10 km North of Karlsruhe center, Germany (former Forschungszentrum Karlsruhe)



HTS⁴Fusion Conductor Workshop

High T_c Superconductors
at High Current and High Fields
for Fusion Application



May, 26th and 27th
KIT C.N. Karlsruhe Germany
<http://www.itep.kit.edu/hts4fusion2011>

HTS⁴Fusion Conductor-Workshop

Time: May 26th – 27th
 Location: Karlsruhe, Germany, KIT C. N.

Profile

HTS⁴Fusion Conductor Workshop targets the development of a HTS high current & high field conductor that answers the needs for fusion application. After clarifying the boundaries for DEMO, the status of HTS material and ideas for cable concept are addressed. Joint formation, electrical and mechanical stability, AC loss optimization and irradiation issues will be discussed.

Organization

HTS⁴Fusion Conductor Workshop is organized by KIT, Institute for Technical Physics (responsible Walter.Fietz@KIT.edu)

Program Committee

The program committee takes care of the scientific organization and consists of

- Pierluigi Bruzzone, CRPP
- Antonio Della Corte, ENEA
- Jean-Luc Duchateau, CEA
- Walter Fietz, KIT
- Wilfried Goldacker, KIT
- Harald Weber, ATI

Day 1	End	Title	Presenter	Topic
8:30	8:35			Welcome
8:35	8:55	Introduction to HTS ⁴ Fusion	W.H. Fietz (KIT)	Intro
8:55	9:40	Roadmap to DEMO and Related Technological Challenges	G. Federici (EFDA)	DEMO
9:40	10:10	Which SC Magnets for DEMO and Future Fusion Reactors ?	J-L Duchateau (CEA)	DEMO
10:10	10:35			Coffee
10:35	11:20	Overview of HTS Material and MgB ₂	R. Flükiger (Geneva)	HTS Materials 1
11:20	12:05	Coated Conductors	V. Selvamanickam (Houston)	HTS Materials 2
12:05	13:20			Lunch
13:20	13:50	MgB ₂ + BiSCCO	S. Schlachter (KIT)	Cable Concepts I
13:50	14:35	REBCO Cables	W. Goldacker (KIT)	Cable Concepts II
14:35	15:20	HTS and Cable Concepts	J. Minervini (MIT)	Cable Concepts III
15:20	15:45			Coffee
15:45	16:30	Joints with HTS Materials	N. Yanagi (NIFS)	Joints
16:30	17:15	Thermal Stability and Quench	R. Wesche (CRPP)	Electr. & Mechan. Stability I
17:15	18:00	Mechanical and Electrical Stability	A. Nijhuis (Twente)	Electr. & Mechan. Stability II
19:30				Dinner

Day 2	End	Title	Presenter	Topic
8:30	9:15	Mechanical stability	K.-P. Weiss (KIT)	Electr. & Mechan. Stability III
9:15	10:00	AC Losses	F. Gömöry (IEE)	AC Loss I
10:00	10:25			Coffee
10:25	11:10	AC Losses	F. Grilli (KIT)	AC Loss II
11:10	11:55	Radiation Effects on HTS	H. Weber (ATI)	Irradiation
11:55	12:25	Summary and Closing Remarks	M. Noe (KIT)	Closing Remarks