



Sixth International “Hiroshima” Symposium on the Development and Application of Semiconductor Tracking Detectors

Sept. 11-15 2006, Carmel, California, USA

Announcement

The 6th International Symposium on the Development and Application of Semiconductor Tracking Detectors (STD6 Hiroshima) will be held on September 11-15, 2006 at the Carmel Mission Inn, Carmel, California, USA.

The primary goal of this symposium is to bring together experts in the design, processing and applications of semiconductor tracking detectors for discussions of past experiences, lessons learned and new ideas which are still in the early stage of development.

This years symposium will start with a special “Tracking Workshop” in honor of Abe Seiden’s 60th birthday.

This is the first time this conference is being held in the USA. All previous symposia were held on the Pacific Rim:

1993	Hiroshima	(Nucl. Instr. Meth. A342)
1995	Hiroshima	(Nucl. Instr. Meth. A383)
1997	Melbourne	
2000	Hiroshima	(Nucl. Instr. Meth. A466)
2004	Hiroshima	(Nucl. Instr. Meth. A541)

We plan to publish this year’s proceedings in Nuclear Instruments and Methods A.

Many of the large-scale projects, which occupied our attention in the past conferences, are very close to successful completion and ready for data taking in the near future (ATLAS, CMS, LHCb, ALICE, GLAST, among others). So while much of the last conference was under the theme “Lessons learned”, we would like to put the emphasis of this year’s conference on “Future trends”, including new applications.

Attached is the preliminary program. As before, there will be plenary talks and posters, which will be available for discussion during coffee/tea breaks during the entire conference. Most of the topics will be introduced by invited speakers.

On behalf of the Organizing Committee, we would like ask you to contribute to this Conference in three ways: suggest topics, presentations and speakers (including yourself), inform your colleagues of the date and venue of the conference, and most importantly, plan to attend and let us know soon.

Takashi Ohsugi, Hiroshima University, Chair of the Organizing Committee
Hartmut Sadrozinski, UC Santa Cruz, Chair of the Local Organizing Committee
Yoshinobu Unno, KEK



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Program

(Version 4/10/06)

Sunday, Sept. 10, 2006

17:00 -19:00 Welcoming Reception at Carmel Mission Inn

Monday, Sept. 11, 2006

9:00 – 10:00 Registration and Gathering

10:00 – 13:00 Morning Session of Tracking Workshop (Abe Fest)

Lessons Learned from Recent Tracking Systems

(Mark 3, Mark 2, SLD, LPS, BaBar, SDC, SCT, Front-End Electronics)

14:00 – 17:30 Afternoon Session of Tracking Workshop (Abe Fest)

Expectations for Future Tracking Systems

(LHC upgrade, ILC, Space, Vision)

Science Planning and Vision of Instrumentation

18:30 Banquet at Rancho Cañada Golf Club

Tuesday, Sept. 12, 2006

8:30 – 12:30 Morning Session: Simulations & Manufacturing

Simulation of Electrical Parameters

New Structures

Isolation Techniques

New Wafer Materials

14:00 – 18:00 Afternoon Session: Pixel Technology

Hybrid Pixels

MAPs

CCDs

3-D detectors

CMOS detectors

DEPFETs

18:30 Wine Tasting at Carmel Mission Inn

Wednesday, Sept. 13, 2006

8:30 – 12:30 Morning Session: Strip Technology

Double-sided SSD

n-on-n SSD

p-type SSD

Testing and Q/A

Applications in HEP

Afternoon Excursion to Point Lobos



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Program, continued

Thursday, Sept. 14, 2006

8:30 – 12:30 Morning Session: New Materials & Electronics

Radiation Tolerance
New Materials
Integration of Electronics & Detectors
Electronics

14:00 – 18:00 Afternoon Session: System Issues

Mechanics
Cooling
Integration
Alignment
DAQ

18:30 Dinner at Lugano Swiss Bistro

Friday, Sept. 15, 2006

8:30 – 12:30 Morning Session: Applications in Astrophysics

Space Missions
Ground Experiments
X-ray Detection
Compton Detectors
IR detection

14:00 – 16:00 Afternoon Session: Applications in Medicine / Biology/ Condensed Matter

Structure of Matter
Medicine / Biology
Synchrotron Radiation
Special Applications