

Project Outcomes Report

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Award Title: Support for Young US Scientists Attending the Second Technology and Instrumentation in Particle Physics Conference, June 9-14, 2011 in Chicago, Illinois.

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Support for Young US Scientists Attending the Second Technology and Instrumentation in Particle Physics Conference, June 9-14, 2011 in Chicago, Illinois.

The second International Conference on Technology and Instrumentation in Particle Physics (TIPP) was held from June 9 to June 14, 2011 in Chicago, Illinois. The goal of the conference was to provide a truly international forum for discussion and presentation of detector development and instrumentation in the field of particle physics and closely associated disciplines. The conference provided a wider scope than the existing conferences for young researchers to interact in person with experts in the field and to become known to the community. An important goal of this conference was to attract members of the younger generation of scientist to pursue the development of new technologies.

Following the mandate of IUPAP, the emphasis of the conference was on technology and instrumentation for particle physics. Given the growing synergies between particle physics, particle astrophysics and photon science contributions on technology and instrumentation from closely related disciplines were included.

The conference had 483 participants and tried to include as many young scientists as possible and engage them in the ongoing work on the development of new instrumentation for particle physics. To accomplish this, three topical lecture courses were made an integral part of the conference, scientific secretaries were recruited from the pool of graduate students and an active social program with close interaction between vendors, senior scientists and junior scientists was established.

The conference had fourteen scientific secretaries recruited from graduate students and recent post-docs, mainly from Fermilab. The secretaries were:

- Camacho, Enrique (CINVESTAV)
- Green, Jessica (Purdue University)
- Joglekar, Aniket (Univ. of Chicago)
- Ketchum, Wesley (Univ. of Chicago)
- Lanza, Robert (Univ. of Chicago)
- Li, Ho Ling (University of Chicago)
- Liu, Qiuguang (Purdue University)
- Lu, Ying (University of Maryland)
- Orduna, Jesus (Rice University)
- Prewitt, Michelle (Rice University)
- Pupillo, Francesco
- Tang, Jian (University of Chicago)
- Wu, Min (Purdue University)
- Zheng, Yu (Purdue University)

Captain of the scientific secretaries was Michelle Prewitt, graduate student from Rice University on the Dzero experiment. She did a great job coaching and mentoring the students for the plenary and parallel sessions. Those secretaries who had requested financial support were supported from the NSF funds.

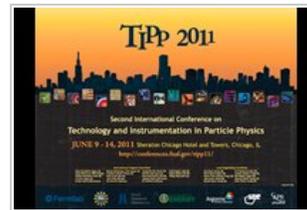
Three short courses were given during the conference for younger physicists. The course on Silicon Detectors was given by Dr. Carl Haber from LBNL and was attended by 75 junior participants; the course on Electronics for Particle Physics was given by Dr. Gary Drake from Argonne National Laboratory and was attended by 115 participants. The course on Neutrino Detectors was given by Dr. Mayly Sanchez from the University of Iowa and was attended by 66 participants.

The regular registration fee for the conference was \$550. The registration fee was waived for students in need of financial support who met the selection criteria. The student had to submit an abstract for either an oral or poster presentation and a recommendation letter from the advisor was required. A total of 66 students applied for support. Nine students cancelled their request. These students were located in India, Hungary, Switzerland, Iran, Pakistan, Brazil, Romania, South Africa and China. The request for support from the remaining 57 students was considered and 41 requests were granted. Requests were declined because no letter of recommendation was received or because the topic was outside the scope of the conference. All other awards were granted respecting diversity, appropriateness of proposed presentation (oral or poster) and minority status of the applicant. A total of 37 students attended with support. Of the students who were declined financial support, 14 did attend the conference paid for using their own funds.

Of the 41 students that were supported seven were female and all attended the conference. The full list of US students that were supported is:

- Abramovitch, Joshua; Southern Methodist University (jabramovit@smu.edu)
- Aefsky, Scott; Brandeis University (aefskysa@brandeis.edu)
- Bilki, Burak; University of Iowa (burak-bilki@uiowa.edu)
- Bradley, Adam; Case Western Reserve University (awbradley@case.edu)
- Chapman, Jeremy; Brown University (jeremy_chapman@brown.edu)
- Cooney, Michael; University of Hawaii (cooneym@hawaii.edu)
- Faham, Carlos; Brown University (carlos@brown.edu)
- Goetzke, Luke; Columbia University (lukeg@phys.columbia.edu)
- Howley, Ian; The University of Texas, Arlington (ihowley@uta.edu)
- Ignarra, Christina; Massachusetts Institute of Technology (ignarra@mit.edu)
- Joglekar, Aniket; University of Chicago (aniket.joglekar88@gmail.com)
- Johansen, Jacob; University of Chicago (jacobjohansen@gmail.com)

Image



- Ketchum, Wesley; University of Chicago (wketchum@uchicago.edu)
- Lamichhane, Pramod; Wayne State University (dz3990@wayne.edu)
- Lanza, Robert; University of Chicago (bobbylanza@gmail.com)
- Lopez, Jeremy; Massachusetts Institute of Technology (jlopez@mit.edu)
- Lu, Ying; University of Maryland, College Park (ylu12345@umd.edu)
- Prewitt, Michelle; Rice University (mprewitt@rice.edu)

The total amount of US student support was \$9900. The total NSF contribution was used for US student support. The remaining support came from IUPAP and DOE funds. All supported students gave an oral presentation except for Mr. Abramovitch, who gave a poster presentation.

The proceedings from the conference are published in Physics Procedia by Elsevier, available at <http://ees.elsevier.com/tipp11/>.

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