**4. Developing the International Interdisciplinary Researcher**

One key activity of PRAGMA is developing new researchers with experience in cross-border science. Developing talent and broadening participation is a strategy that ensures additional sources of new ideas and projects, which is critical to PRAGMA’s long term success. There are three activities we describe in this section are PRAGMA Students, PRIME, and MURPA/QURPA, all of which are aimed at developing international interdisciplinary researchers and future leaders.

**4.A. PRAGMA Students**

PRAGMA Students was formed in 2012 to enhance opportunities for students to gain professionally from PRAGMA’s trusted social and technical networks.. PRAGMA Students is a student organization within PRAGMA led by a governing student body and advised by a PRAGMA steering committee. Activities of the PRAGMA Student Group include but are not limited to: organizing student workshops and poster sessions as part of the bi-annual PRAGMA workshops, hosting online seminars for the broader PRAGMA community, and working together to develop a unique model for involving graduate students in the unique Pacific Rim collaborations that define PRAGMA scientific research.

Since PRAGMA is focused on research and experimentation, engaging with the PRAGMA student group provides students with experience and training that they cannot find at their home institution. Experience in PRAGMA Students will yield outcomes that are on par – both in term of experience and prestige – of an internship at a big technology company or a large research lab.

The benefits of the PRAGMA student group are as follows:

* The Ph.D. student should see his or her research strengthened through engagement with mentors/advisors from outside the students’ home institution.
* The undergraduate or early Ph.D. student benefits from short-term residential research opportunities in new countries.
* The student engaged in PRAGMA Student group benefits from working with peers at Pacific Rim institutions on joint efforts and in doing, so cements a lasting network of peers that is international in scope.
* The student gains experience interacting professionally in an international setting.

In Spring 2013, PRAGMA Students hosted a remote lecture to an audience of more than 50 attendees, including PRAGMA members and those outside the PRAGMA community. The speaker, Phil Papadopoulos of San Diego Supercomputer Center and the California Institute for Telecommunications and Information Technology, discussed “Building the PRAGMA Multi-Cloud” (see <http://connect.iu.edu/p1un2k6gqy6/>). PRAGMA Students have additionally hosted their first and second PRAGMA Student Workshop at PRAGMA 24 and 25. The 2nd workshop showcased student research via short talks, and encouraged mentor-mentee engagement through facilitated discussions. Finally, PRAGMA Students have taken responsibility for organizing poster sessions for the last two PRAGMA workshops, providing students valuable leadership experience and exposing them to a broad range of research in PRAGMA.

PRAGMA has a long history as a trusted network, and is using that network to foster a healthy new generation of researchers.

PRAGMA Students Leadership: Indiana U: Yuan Luo, Gabriele Zhou; Konkuk U: Meilan Jiang, Any from Kasetsart?

PRAGMA Students:

PRAGMA Students Advisors: Indiana U: Beth Plale; Konkuk U: Karpjoo Jeong; Kasetsart U: Putchong Uthayopas

< suitable photograph >