



Asian Photovoltaic Industry Association (APVIA) is pleased to announce that student recruitment of the first training session of Asia Pacific Solar Institute (APSI) is launched!

### About APSI

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On 29 October 2013, the long-planned Asia Pacific Solar Institute (APSI) was officially launched at the opening ceremony of PVAP Conference 2013 which attracted considerable attention in the PV community.

The Asia Pacific Solar Institute (APSI) is initiated by the Asian Photovoltaic Industry Association (APVIA) and founded in close collaboration with the National University of Singapore (NUS), University of New South Wales (UNSW) in Australia and Arizona State University (ASU) in the US. APSI aims to offer interdisciplinary training programs in solar energy to professionals looking to pursue or advance careers in solar energy. The solar industry is poised for unprecedented growth and needs leaders who understand both the most current technical and business topics in the field, in order to transform the solar industry. The programs are designed to help participants meet employers' demands for sophisticated professionals that can address science, policy and high-level business issues.

### Programs

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The first training session of APSI will start classes in September and October 2014. There are three courses in this session:

- Applied Photovoltaics Online Course by UNSW
- Solar Energy Engineering & Commercialization Certification Program by ASU
- Characterisation of PV cells and modules by Solar Energy Research Institute of Singapore (SERIS) at NUS

Introduction of the three courses is as follows:

#### **Applied Photovoltaics Online Course**

By **University of New South Wales (UNSW), Australia--School of Photovoltaic and Renewable Energy Engineering**



[The University of New South Wales \(UNSW\)](#) is one of Australia's leading research and teaching universities. Established in 1949, it is ranked among the top 60 universities in the world, renowned for the quality of its graduates and its world class research. With more than 50,000 students from over 120 countries, it is one of Australia's most cosmopolitan universities.

[The School of Photovoltaic and Renewable Energy Engineering \(SPREE\)](#) commenced in 2000, offering the world's first undergraduate engineering program, with over 600 students presently enrolled.



Its research output is well-known, with the group holding the record for silicon cell efficiency for over two decades and working with many companies to commercialise this improved technology. It also has a strong program in the system and applications area, installing Australia's first grid-connected photovoltaic system over 20 years ago.

UNSW's **Applied Photovoltaics Online Course** provides a good familiarization with practical properties of solar cells and modules and concentrates on photovoltaic applications ranging from small stand-alone systems to large grid-connected installations.

- ◆ Duration: 12 weeks
- ◆ Format: Internet learning
- ◆ Location: Anywhere with internet access
- ◆ Fee: AUD1600 /person (including textbook "Applied Photovoltaics" and certificate of completion)

### **Solar Energy Engineering & Commercialization Certification Program**

By **Arizona State University, USA - Ira A. Fulton Schools of Engineering / Global Institute of Sustainability**



As a comprehensive public metropolitan research university enrolling more than 70,000 undergraduate, graduate, and

professional students on four campuses, [ASU](#) is a federation of unique colleges, schools, departments, and research institutes. Four cornerstones form the foundation of the university's sustainability strategy: education, research, business practices, and global partnerships and transformation. These broad-based themes span disciplines, campuses, and institutional boundaries to forge meaningful solutions to the challenges of sustainability.

[The Ira A. Fulton Schools of Engineering](#) provides a transformative educational experience giving students the knowledge and skills they need for success in a technically oriented career.



Arizona State University, Tempe Campus  
Brickyard Complex

The school teaches in a context that encourages the creation of new knowledge - teaching and research are connected. In addition, it provides lifelong membership to a large, diverse and collaborative network of colleagues, leading to continued professional growth, friendships and personal fulfilment.

[The Global Institute of Sustainability](#) is the hub of Arizona State University's sustainability initiatives. The Institute advances research, education, and business practices for an urbanizing world. Its School of Sustainability, the first of its kind in the U.S., offers transdisciplinary degree programs focused on finding practical solutions to environmental, economic, and social challenges.

ASU's innovative **Solar Energy Engineering & Commercialization (SEEC) certification program** provides participants with an understanding of the multitude of technologies in the field, the applications of solar energy, as well as the production of solar energy, the supply chain and consumption. Further, recognizing that technology is not the only driving force behind the success of the solar industry, this program discusses government policies, business opportunities, economics, and the social and environmental aspects of solar energy. Program participants also have the opportunity to choose a technical track, designed for professionals with a science or engineering background, or a non-technical track for professionals involved in the business aspects of solar. Both tracks include common core modules and hands-on experience through applied projects that immerse them in details of actual solar energy systems.

- ◆ Duration: 10 Days (7 hours /day)
- ◆ Format: traditional classroom face-to-face instruction
- ◆ Format: traditional classroom face-to-face instruction
- ◆ Fee: USD5600 /person (including onsite instruction at ASU's Tempe campus, parking validation, lunch and snack catering, project advising, program materials and program notebook, certificate of completion and celebration dinner; travel expenses are not included in the fee)

#### Characterisation of PV cells and modules

By **National University of Singapore (NUS), Singapore - Solar Energy Research Institute of Singapore (SERIS)**



A leading global university centred in Asia, [the National University of Singapore \(NUS\)](#) is Singapore's flagship university which offers a global approach to education and research with a focus on Asian perspectives and expertise. Research activities are strategic and robust, and NUS is well-known for its research strengths in engineering, life sciences and biomedicine, social sciences and natural sciences. The University also strives to create a supportive and innovative environment to promote creative enterprise within its community.



[The Solar Energy Research Institute of Singapore \(SERIS\)](#) at NUS is Singapore's national institute for applied solar energy research. The institute conducts research, development, testing and consulting in the fields of solar energy conversion and solar building technologies, to contribute towards a sustainable global energy supply and reduced greenhouse gas emissions. The R&D focus is on materials, components, processes and systems for (i) photovoltaic electricity generation and (ii) solar and energy-efficient buildings. SERIS is globally active but focuses on technologies and services for tropical regions, in particular for Singapore and South-East Asia, and reaches out to India and China.

The training program on **Characterisation of PV Cells and Modules** conducted by SERIS provides a good familiarization with the most important characterisation methods for PV cells and modules, covering both the theoretical background of the methods and their actual use in the laboratory. The training program is conducted at SERIS and consists of classroom lectures and hands-on sessions in the laboratory.

- ◆ Duration: 5 days (7 hours/day)
- ◆ Format: Classroom lectures and hands-on sessions in the laboratory
- ◆ Location: NUS campus, Singapore
- ◆ Fee: SGD1900 /person (including onsite instruction at NUS campus, program materials and certificate of completion; travel expenses are not included in the fee)

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For more information on the three courses, including topic details of the courses, [please click here and view "Programs" in the section "APSI" on APVIA official website](#), or [click here to download and read the file \*Asia Pacific Solar Institute \(APSI\) Training Program Outline\*](#).

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### Faculty

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Renowned professors and experts who will teach in the first training session of APSI include:



Prof. Martin Green



Prof. Armin Aberle



Dr. Harvey Bryan

*Director, Australian Centre for Advanced Photovoltaics; Scientia Professor, University of New South Wales, Sydney, Australia*



**Dr. Matthew Fraser**

*Executive Director and Sustainability Director, Quantum Energy and Sustainable Solar Technology Center, Ira A. Fulton Schools of Engineering*

*CEO, Solar Energy Research Institute of Singapore (SERIS); Tenured Full Professor, Department of Electrical and Computer Engineering, National University of Singapore (NUS)*



**Dr. Thomas Reindl**

*Deputy CEO, Solar Energy Research Institute of Singapore (SERIS), Singapore*

*SEEC Program Director; Professor and Senior Sustainability Scientist, ASU Global Institute of Sustainability*



**Dr. Bram Hoex**

*Director, Solar Energy Research Institute of Singapore (SERIS), Singapore*

Director, Solar Energy Research Institute of Singapore (SERIS), Singapore, [please click here and view "Faculty" in the section "APSI" on APVIA official website](#)

#### Course Fees

Course	University/Institute	Fee
Applied Photovoltaics Online Course	University of New South Wales (UNSW), Australia - School of Photovoltaic and Renewable Energy Engineering	AUD1600 /person (including textbook "Applied Photovoltaics" and certificate of completion)
Solar Energy Engineering & Commercialization Certification Program	Arizona State University, USA - Ira A. Fulton Schools of Engineering / Global Institute of Sustainability	USD5600 /person (including onsite instruction at ASU's Tempe campus, parking validation, lunch and snack catering, project advising, program materials and program notebook, certificate of completion and celebration dinner.)
Characterisation of PV cells and modules	National University of Singapore (NUS), Singapore - Solar Energy Research Institute of Singapore (SERIS)	SGD1900 /person (including onsite instruction at NUS campus, program materials and certificate of completion)

**Note:**

**The fees of Solar Energy Engineering & Commercialization Certification Program and Characterisation of PV cells and modules specified above do not include travel expenses that might be incurred.**

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## Registration

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**Courses of the first training session of APSI will be taught in small classes. For each course, only 20 students will be admitted.** Those who long to be guided by world renowned professors and experts in their studies of solar energy and acquire more professional expertise, or those who want to pursue careers in solar energy, do not miss this great opportunity! If you would like to take any course in the first training session of APVIA, [please click here to download \*Asia Pacific Solar Institute \(APSI\) -- Student Registration Form\*](#), fill in the form and send the completed form to [office@apvia.org](mailto:office@apvia.org).

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## More Details

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APVIA has designated a section for APSI in our official website, with several sub-sections providing specific information on APSI, including "About APSI", "Faculty", "Programs", "Training Courses", "Online Courses" and "Course Fees". For more information on APSI and the first training session, [please click here and view the section "APSI" on APVIA official website](#).

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## Contact Us

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## Organizations Involved

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The organizations participating in the establishment and student recruitment of APSI include:

