

## MEDIA RELEASE

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### **A\*STAR AND INDUSTRY PARTNERS CLINCH ASEAN OUTSTANDING ENGINEERING ACHIEVEMENT AWARDS**

***A\*STAR's I<sup>2</sup>R and IMRE receive 2 out of 3 Singapore awards  
for cutting-edge industry projects***

1. **Singapore, 12 November 2013** – Singapore's Agency for Science, Technology and Research (A\*STAR) and its industry partners have clinched one of the region's most prestigious engineering honours, the ASEAN Outstanding Engineering Achievement Awards. Two out of the three awards for Singapore went to A\*STAR and their partners. The awards were presented at the Conference of the ASEAN Federation of Engineering Organisation (CAFEO) held in Jakarta.
2. The winning industry projects featured the latest technology in advanced materials for smart phones and intelligent signal processing for security fencing respectively:
  - *EyeFly3D – Making 3D Available for Anyone, Anytime, Anywhere*: A development by A\*STAR's Institute of Materials Research and Engineering (IMRE), Nanoveu Pte Ltd and Temasek Polytechnic (TP), which is based on nanoimprint technology, produced the flexible *EyeFly3D* screen protector that turns mobile devices into glasses-free 3D viewing platforms. Together with software applications developed for Apple iOS and Android platforms, the simple plastic film allows users to play 3D content and also converts 2D pictures into 3D easily.
  - *AgilFence Perimeter Intrusion Detection System (PIDS)*: The Institute for Infocomm Research (I<sup>2</sup>R) together with ST Electronics (Satcom and Sensor Systems) and Changi Airport Group developed a security fencing which incorporates a unique intelligent adaptive signal processing algorithm, allowing for reliable detection, location and

response to perimeter intrusion. This is the first successful deployment of such a large scale fiber Bragg grating-based perimeter intrusion detection system (PIDS) in the world.

Both projects were also presented with the Institution of Engineers (IES) Singapore Prestigious Engineering Achievement Awards 2013 last month.

3. Dr Tan Geok Leng, Executive Director of A\*STAR's Science and Engineering Research Council, said, "A\*STAR is delighted to receive these two awards, and these joint honours with our industry partners reflect our strong partnership and the impact of our research on industry. This regional recognition also reflects on Singapore's thriving IP landscape, which is key to encouraging innovation and creativity."
4. Mr Alfred Chong, Chief Executive Officer (CEO) and founder of Nanoveu Pte Ltd said, "To have our products recognized at a prestigious event like the ASEAN Outstanding Engineering Awards is very encouraging for the team and spurs us onto our next milestone. The awards are a terrific platform for small companies like ours to showcase how we turn innovative research into products that benefit consumers."
5. Mr Lee Fook Sun, President of ST Electronics said, "Over the years, we have successfully nurtured a culture of innovation in ST Electronics, to the extent that many of our engineers are constantly striving to come up with clever and novel solutions to engineering problems that are so daunting, or are so routine that we often accept them as given. This year, ST Electronics was conferred the IES Awards for three of our innovative system solutions - AgilFence PIDS, Smart Utilities Suite and Incident Management System. In the AgilFence solution, we are very happy to have I?R as our technology partner and CAG as the launch customer. Since then, the AgilFence has gone on to win the support of several other customers, and we are confident that it will eventually be installed in many more airports and critical infrastructure around the world."
6. Recently, A\*STAR's patent power scorecard was also ranked 2<sup>nd</sup> internationally by the Institute of Electrical and Electronics Engineers (IEEE), ahead of some of the world's most reputable government organisations like NASA.<sup>1</sup>

Enclosed: **Annex A – Project Citations**

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<sup>1</sup> Source: IEEE Patent Power 2013: [http://spectrum.ieee.org/static/interactive-patent-power-2013#anchor\\_gov](http://spectrum.ieee.org/static/interactive-patent-power-2013#anchor_gov)

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### **About the Agency for Science, Technology and Research (A\*STAR)**

The Agency for Science, Technology and Research (A\*STAR) is Singapore's lead public sector agency that fosters world-class scientific research and talent to drive economic growth and transform Singapore into a vibrant knowledge-based and innovation driven economy.

In line with its mission-oriented mandate, A\*STAR spearheads research and development in fields that are essential to growing Singapore's manufacturing sector and catalysing new growth industries. A\*STAR supports these economic clusters by providing intellectual, human and industrial capital to its partners in industry.

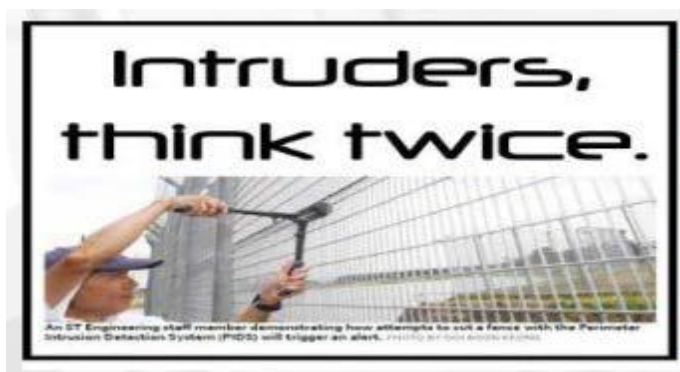
A\*STAR oversees 20 biomedical sciences and physical sciences and engineering research entities, located in Biopolis and Fusionopolis as well as their vicinity. These two R&D hubs house a bustling and diverse community of local and international research scientists and engineers from A\*STAR's research entities as well as a growing number of corporate laboratories.

Please visit [www.a-star.edu.sg](http://www.a-star.edu.sg)

**ASEAN Outstanding Engineering Achievement Award 2013 – Citations of Winning Projects from A\*STAR**

1. *AgilFence Perimeter Intrusion Detection System (PIDS) By ST Electronics (Satcom & Sensor Systems); Changi Airport Group & Institute for Infocomm Research (I²R) - A\*STAR*

AgilFence is an indigenous designed & developed system using patent-pending Fibre Bragg Grating technology & unique intelligent adaptive signal processing algorithm. AgilFence is high performance & cost-effective, field-proven in Changi Airport and more than 10 other sites. AgilFence is a force multiplier. It allows security forces to reliably detect, pinpoint and respond to any attempt of perimeter intrusion.



*Image source: I²R corporate slides.*

National Archives of Singapore

2. *Eyefly 3D - Making 3D Available for Anyone, Anytime, Anywhere* By Nanoveu Pte Ltd; Institute of Materials Research and Engineering (IMRE) - A\*STAR & Temasek Polytechnic  
Eyefly3D, is a thin, flexible screen protector which, when affixed to a high resolution device turns mundane 2D into a glasses-free 3D viewing platform. This extraordinary plastic film measures at a mere 0.1mm, and is the first glasses-free 3D accessory that can display content in both portrait and landscape modes.

Coupled with software applications for both the Apple iOS and Android platforms, mobile device users are able to play 3D content via the film, and these applications allow 2D pictures taken to be converted into 3D. Development is also underway on a software development kit that enables game developers to convert their existing games into 3D versions.



*Image source: Temasek Polytechnic, Singapore*

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