

Kavli Prizes in Nanoscience

As we went to press last month, the inaugural Kavli Prizes in Nanoscience were awarded to Prof. Lou Brus of Columbia University and Dr. Sumio Iijima of NEC and Meijo University for their contributions in zero- and one-dimensional nanostructures, respectively.¹ The materials they study, quantum dots (Brus) and carbon nanotubes (Iijima), have served both as extraordinarily useful and illuminating test-beds and as motivational proofs of principle that so much is *different* at the nanoscale. Their work has activated and inspired others to study these materials and to search for new nanomaterials. Such prizes award not only one or a few individuals, but all those in their field. Their work, collectively, was found to be of particular note and importance. We are delighted to have this new major international prize in nanoscience.

In a Focus Article in this issue, Prof. Ali Javey discusses one-dimensional nanomaterials, compares carbon nanotubes with semiconducting nanowires, and explores where these materials could be used.² Next month, look for a Focus Article by Prof. Paul Alivisatos, in which he discusses quantum dots as building blocks.³

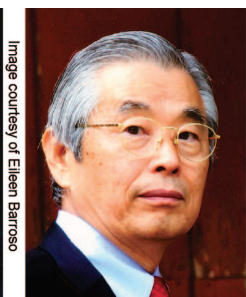


Image courtesy of Eileen Barroso

Image courtesy of Sumio Iijima

Prof. Louis Brus (left) and Dr. Sumio Iijima (right) were awarded the inaugural Kavli Prizes in Nanoscience for their work on zero- and one-dimensional nanostructures, respectively.

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In our Conversation in this issue, Dr. Chunli Bai discusses the emergence of nanoscience in China, which is centered on and motivated by work in nanomaterials.⁴ As you will see, nanoscience has a special place in China, and Dr. Bai continues to play important roles in this.

I would like to congratulate Prof. Brus and Dr. Iijima on their awards, and specifically for their support of *ACS Nano*: Prof. Brus as a member of our Editorial Advisory Board, and Dr. Iijima for his frequent and noteworthy contributions.^{5–7}

Paul S. Weiss
Editor-in-Chief

REFERENCES AND NOTES

1. The Kavli Prize in Nanoscience 2008; http://kavlifoundation.org/categ2/pp_na_c.html.
2. Javey, A. The 2008 Kavli Prize in Nanoscience: Carbon Nanotubes. *ACS Nano* **2008**, *2*, 1329–1335.
3. Alivisatos, A. P. Birth of a Nanoscience Building Block *ACS Nano* **2008**, *2*, in press.
4. Weiss, P. S. A Conversation with Prof. Chunli Bai: Champion of Chinese Nanoscience. *ACS Nano* **2008**, *2*, 1336–1340.
5. Jin, C.; Suenaga, K.; Iijima, S. How Does A Carbon Nanotube Grow? An *In Situ* Investigation on the Cap Evolution. *ACS Nano* **2008**, *2*, 1275–1279.
6. Zhang, M.; Yudasaka, M.; Ajima, K.; Miyawaki, J.; Iijima, S. Light-Assisted Oxidation of Single-Wall Carbon Nanohorns for Abundant Creation of Oxygenated Groups That Enable Chemical Modifications with Proteins To Enhance Biocompatibility. *ACS Nano* **2007**, *1*, 265–272.
7. Miyawaki, J.; Yudasaka, M.; Azami, T.; Kubo, Y.; Iijima, S. Toxicity of Single-Walled Carbon Nanohorns. *ACS Nano* **2008**, *2*, 213–226.

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