Shuji Nakamura has been selected to receive one of Japan’s highest honors: the 2014 Order of Culture Award. The medal, which recognizes contributions to the nation’s culture, will be presented by Emperor Akihito in a ceremony at the Imperial Palace on Nov. 3, which is also Day of Culture in Japan.

Nakamura, UCSB professor of materials, was among several award candidates selected by Japan’s Ministry of Education, Culture, Sports, Science and Technology. Chosen from a list of people designated as Persons of Cultural Merit, the recipients of the Order of Culture award are decided by the Cabinet of Japan.

“It brings me great pride to congratulate Professor Nakamura on this prestigious honor bestowed by the emperor of Japan,” said UC Santa Barbara Chancellor Henry T. Yang. “The Order of Culture award is a significant acknowledgement that Professor Nakamura’s invention of the first bright blue light-emitting diode will continue to be recognized the world over for its long-lasting and far-reaching impacts on our global society. By making white LED lighting a reality, he has opened the door to affordable, energy-efficient lighting for every person in every nation — a monumental contribution to all of humankind. He also has advanced the frontiers of science with his unparalleled breakthroughs in physics, materials science and technology.”

“This is the most prestigious award in Japan,” Nakamura said. “It is my great honor to receive it for recognition of my work in the invention of bright blue LEDs and
energy efficient white light sources.” Nakamura is widely recognized as the world pioneer in light emitters based on the wide-bandgap semiconductor gallium nitride (GaN) and its alloys with aluminum and indium.

The Order of Culture award comes in the wake of Nakamura’s win of the 2014 Nobel Prize for Physics, an honor he received in recognition of his invention of the blue light emitting diode (LED). The blue LED, in turn, paved the way for the white LED, a breakthrough in energy-efficient lighting that has the potential to improve the quality of life for the people of the world who have little or no access to electricity.

“As one of Shuji’s closest colleagues and friends I am very proud that Professor Nakamura is receiving the most prestigious Order of Culture medal from his homeland in recognition for his work in changing the world with energy efficient lighting,” said Steven DenBaars, co-director of UCSB’s Solid State Lighting & Energy Electronics Center (SSLEEC).

Hiroshi Amano, who is also credited for the blue LED and is also a 2014 Nobel Laureate in Physics, also has been selected for the 2014 Order of Culture medal. Isamu Akasaki, who also won the 2014 Nobel Prize in Physics, was awarded the Order of Culture in 2011.

Other friends and colleagues at UCSB expressed their pride and joined in the celebration of Nakamura’s selection for the important Japanese award. Rod Alferness, dean of the College of Engineering, called his selection “a wonderful and very fitting recognition and honor for the tremendous impact on people’s lives.” Tresa Pollock, chair of the Department of Materials, said the department is “tremendously proud of Shuji and his research accomplishments.”

Nakamura received his bachelor’s, master’s and doctoral degrees in electrical engineering from the University of Tokushima, Japan. He spent the early years of his career in research at Japan’s Nichia Chemical Industries Ltd., and then spent a year at the University of Florida as a visiting research associate. In 1989, he initiated the research of blue LEDs using group-III nitride materials. In 1993 and 1995, he developed the first group-III nitride-based blue/green LEDs. He also developed the first group-III nitride-based violet laser diodes (LDs) in 1995. Nakamura is currently co-director at SSLEEC, where he continues to develop GaN thin-film technology.

Nakamura joined the faculty at UCSB in 2000 as professor of materials and of electrical and computer engineering. He was appointed to the Cree Chair in Solid
State Lighting and Display in 2001. Six years later he and his team of researchers at what was then known as the Solid State Lighting and Energy Center at UCSB achieved lasing operation in nonpolar GaN semiconductors. Their demonstration of the world’s first nonpolar blue-violet laser diodes represented a breakthrough in laser diode development.

“This is a great day for Shuji, Japan, the U.S. and UCSB,” said colleague and fellow GaN researcher Umesh Mishra, professor in the Department of Electrical and Computer Engineering. “We are proud to share in this great moment.”

Nakamura has been the recipient of numerous other awards and honors, including the Millennium Technology Prize (2006), the Nishina Memorial Award (1996), the Materials Research Society Medal (1997), the Institute of Electrical and Electronics Engineers’ Jack A. Morton Award, the British Rank Prize (1998), the Benjamin Franklin Medal (2002), the Millennium Technology Prize (2006), the Czochralski Award (2007), the Prince of Asturias Award for Technical Scientific Research (2008), The Harvey Award (2009), the Technology and the Engineering Emmy Award (2011) and the LED Pioneer Award (2012). He was elected to the U.S. National Academy of Engineering in 2003.

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**About UC Santa Barbara**

The University of California, Santa Barbara is a leading research institution that also provides a comprehensive liberal arts learning experience. Our academic community of faculty, students, and staff is characterized by a culture of interdisciplinary collaboration that is responsive to the needs of our multicultural and global society. All of this takes place within a living and learning environment like no other, as we draw inspiration from the beauty and resources of our extraordinary location at the edge of the Pacific Ocean.