

Invitation

Holst Memorial Lecture 2008
Current and Future Status of Solid State Lighting
Prof.dr. Shuji Nakamura, UC Santa Barbara, USA

Holst Symposium 2008
Light in Perspective
New Applications of Light in Healthcare, Energy,
Interaction Design and Art

Organized by Philips Research and
Technische Universiteit Eindhoven

Holst Memorial Lecture and symposium 2008

Thursday, November 20th 2008

TU/e

Technische Universiteit
Eindhoven
University of Technology

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Holst Memorial Lecture and symposium 2008

The Holst Memorial Lecture and Symposium 2008 are organized by Philips Research and the Technische Universiteit Eindhoven (TU/e). This year's Holst Memorial Lecture will be given by prof. Shuji Nakamura (University of California, Santa Barbara, USA).

Symposium 'Light in Perspective'

Developments in the applications of 'Light' in different fields is the theme of this year's Holst Symposium.

While Prof. Nakamura will speak on Solid State Lighting, four distinguished invited speakers will present their views on current and future trends in the application of light in four disciplines:

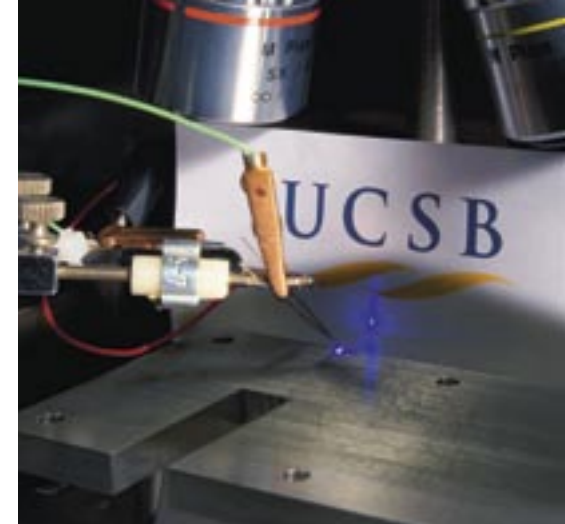
- Light and Energy
Prof.dr. Michael Grätzel, Professor at the Ecole Polytechnique de Lausanne (Switzerland) and director of the Laboratory of Photonics and Interfaces.
- Light and Health
Ir. Klaas Vegter, CTO Philips Lighting, Eindhoven, The Netherlands.
- Light and Interaction Design
Prof.dr. Hiroshi Ishii, Professor of Media Arts and Sciences and director Tangible Media Group, MIT Media Lab, Cambridge, Mass., USA.
- Light and Art
Prof. Mischa Kuball, Conceptual Artist, Düsseldorf and Professor at the Academy of Media Arts, Cologne, Germany.

History of the Holst Memorial Lecture

The first Holst Memorial Lecture was given in 1977 to commemorate the 21st anniversary of the Technische Universiteit Eindhoven. With support from Philips Research, the Holst Lecture became an annual tradition. An eminent scientist is invited to deliver the lecture to an audience consisting of university staff, students, representatives from industry and other guests with a general interest in science and technology. The general theme chosen for these lectures reflects the important contribution of Dr. Gilles Holst to research and technology in the Netherlands: 'the development of applied sciences, particularly mathematics and the natural sciences, for the benefit of industry on one side and their implications for society on the other.'

Gilles Holst

In his own academic career Gilles Holst (1886-1968) played an important part in the discovery of superconductivity by Nobel Laureate H. Kamerlingh Onnes, whilst working at the University of Leiden. However, Gilles Holst will be first and foremost remembered as the founding director of the famous 'Nat Lab', the Philips Physics Laboratory in Eindhoven, where he worked between 1914 and 1946. Dr. Holst also was chairman of two committees that were instrumental in establishing the second Dutch university of technology in Eindhoven in 1956.



Holst Memorial Lecture Award

After delivering the Holst Lecture, the invited speaker will receive the Holst Memorial Lecture Award, a bronze medal designed by Dutch sculptor Jos Reniers.

Candidates for the Award are selected each year by a committee under the chairmanship of the Rector Magnificus of the TU/e, prof.dr.ir. Hans van Duijn and the Chief Executive Officer of Philips Research, dr. Peter Wierenga. The 2008 committee consists of prof.dr. Emile Aarts (Philips and TU/e), prof.dr. Cees Ronda (Philips), prof.dr.ir. Berry Eggen (TU/e) and drs. Joep Huiskamp (TU/e).



Prof.dr. Shuji Nakamura

Shuji Nakamura (*1954) gained world fame when, working for Nichia Chemical Industries in the early Nineties, he developed the first blue laser diode, the 'ultimate dream' in laser technology. Blue light has the shortest wavelength of visible light. Nakamura's blue laser diode enabled quadrupling the amount of data stored optically. His success also allowed producing white light emitting LED's. Since 2000, Shuji Nakamura holds the chair of Materials at the University of

California, Santa Barbara. He obtained his degrees in Electrical Engineering from the University of Tokushima, Japan. Prof. Nakamura received a number of awards, including the Nishina Memorial Award (1996), MRS Medal Award (1997), IEEE Jack A. Morton Award, the British Rank Prize (1998) and Benjamin Franklin Medal Award (2002).

He was elected as the member of the US National Academy of Engineering (NAE) in 2003. In 2006 Nakamura was awarded Finland's Millennium Technology Prize for his continuing efforts to make cheaper and more efficient light sources. He holds more than 100 patents and has published more than 390 papers in this field. "What I

have managed to achieve," Nakamura wrote, "shows that anybody with relatively little special experience in the field, no big money, and no collaborations with universities or other companies, can achieve considerable success alone when he tries a new research area without being obsessed with conventional ideas and knowledge."



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Participation

Participation (Symposium + Holst Lecture) is free of charge. Registration however is obligatory; the number of seats available is limited. Registered participants will receive a confirmation.

Venue

The venue for this year's Holst Memorial Lecture and Symposium is the Auditorium, TU/e, Den Dolech, Eindhoven.

Symposium Program

- 10.30 Registration, coffee, tea**
- 11.00 Opening**
Prof.dr.ir. Hans van Duijn (Rector Magnificus TU/e)
- 11.05 Introduction by Symposium Chair**
Prof.dr. Emile Aarts (Philips and TU/e)
- 11.15 'Light and Energy'**
Prof.dr. Michael Grätzel (Ecole Polytechnique Federale de Lausanne and director of the Laboratory of Photonics and Interfaces, Switzerland)
- 12.00 'Light and Health'**
Ir. Klaas Vegter (CTO Philips Lighting, Eindhoven, The Netherlands)
- 12.45 Lunch**
- 14.00 'Light and Interaction Design'**
Prof.dr. Hiroshi Ishii (Professor of Media Arts and Sciences and director Tangible Media Group, MIT Media Lab, Cambridge, Mass., USA)
- 14.45 'Light and Art'**
Prof. Mischa Kuball (Conceptual Artist, Düsseldorf and Professor at the Academy of Media Arts, Cologne, Germany)
- 15.30 Break**
- 16.00 Word of Welcome**
Dr. Peter Wierenga (CEO Philips Research)
- 16.05 Holst Memorial Lecture 2008**
'Current and Future Status of Solid State Lighting'
Prof.dr. Shuji Nakamura (UC Santa Barbara, USA)
- 16.55 Award Ceremony followed by Reception**

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