

Erik Bründermann selected as Honorable Guest Professor of Shizuoka University, Hamamatsu, Japan

Dr. Erik Bründermann has been selected for a two years period as an Honorable Guest Professor certified by the President of Shizuoka University, Naotaka Oki. His position is affiliated to the [Department of Nanovision Technology](#) which is part of the [Graduate School of Science and Technology](#).

Erik Bründermann was selected due to his contributions to the development of chemical nanoscopes and THz technology. Together with Prof. Eugene E. Haller he holds an US patent for a high power THz germanium laser developed during a Feodor Lynen-scholarship of the Alexander von Humboldt-foundation at the Lawrence Berkeley National Laboratory. The prototype laser is used at the Department of Physical Chemistry II, Ruhr-University Bochum, for new applications in biochemistry.

The collaboration of Norihisa Hiromoto and Erik Bründermann dates back to 1995 at NICT, Tokyo, while they successfully tested Japanese grown THz semiconductor laser material sponsored by the Center of Excellence program. At the time, they were affiliated with NICT, National Institute of Communication and Technology, and DLR, German Aerospace Center, respectively. Their mutual interest in astrophysics has inspired transfer developments of THz technology, image processing and vision technology to the field of nanoscience.

[Shizuoka University](#), in view of mount Fuji-san, was founded 60 years ago incorporating the Hamamatsu Technical High School. Takayanagi Kenjiro (1899-1990) born in Hamamatsu, Shizuoka prefecture, a professor emeritus of Shizuoka University, presented in 1926 the first clear image transmission of the katakana イ on a cathode ray tube ('Braun tube' after Karl Ferdinand Braun) at the Technical High School. In succession, the transmission of a human face and an all-electronic television in 1935 was demonstrated. The father of Japanese television electronics, one of the leading developers of modern television technology is memorized in the Takayanagi Memorial Hall on the Hamamatsu campus of Shizuoka University displaying his achievements ranging from television image processing and transmission to videotape recorder (VTR) which was established as the VHS videocassette system by his successors in the electronics industry.



Norihisa Hiromoto and Erik Bründermann during the 5th International Symposium on Nanovision Science and 10th Takayanagi Kenjiro Memorial Symposium, Shizuoka

Multidimensional and multimodal nanovision is the 21st century approach to new vision systems. Dr. Bründermann will contribute to the new graduate school specialized in the field of nanovision science. The school aims to conduct pioneering research projects stimulated by recent scientific and technological advances considering the specific industrial character of the Hamamatsu region. The Nanovision science research of Shizuoka University closely collaborates with the [Hamamatsu Optronics Cluster](#), promoting industry-academia partnerships with the optical technology industry, which is cooperating with the Optical Valley Jena.

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