Erik Bründermann has participated in the joint ANKA/KNMF user meetings and workshops and as part of his currently running research proposal at KNMF using LIGA, he also presented in the 2010 KNMF meeting: “Metamaterials for shaping Synchrotron radiation in space and time”. His interest in the KNMF is multifold. The KNMF supports structuring and characterization of a multitude of functional materials at the micro- and nanoscale and, therefore, serves as an ideal platform to prepare samples for the future user station and nanoscope at the ANKA-IR2 beamline and for a multitude of users from different disciplines with a potential for future fruitful research collaborations.

Erik Bründermann studied at the Universität Bonn physics, mathematics, and astronomy. In 1991 he obtained a physics diploma degree while working on terahertz (THz) technology at the Max-Planck-Institut für Radioastronomie. He received a Dr. rer. nat. degree in physics and mineralogy in 1994 while working at the MPIfR, and he then joined the DLR in Berlin. In 1997 he was awarded a Feodor Lynen-fellowship of the Alexander von Humboldt-foundation which took him to the Lawrence Berkeley National Laboratory and the Center for Particle Astrophysics. There, together with his host Prof. Eugene E. Haller, he patented materials for Ge and Si THz lasers. After two years in the USA as a visiting researcher he became a member of the Ruhr-Universität Bochum (RUB), currently, as permanent staff and senior researcher in the department of physical chemistry II (at the chair of Prof. M. Havenith) serving also as technical advisor to the Applied Competence Cluster (ACC) THz at RUB.

His research interests are in physics, mathematics, life science, and technology, spanning the spectral range from the THz region to the visible. Within the faculty of chemistry and biochemistry he develops THz techniques for applications, especially for liquid samples in living conditions. Due to his interest in hyperspectral, multimodal, and multidimensional imaging, he initiated the development of chemical nanoscopes at RUB in 2000 which are used for nanoscale objects, plasma particles, semiconductors, molecules, and eventually for living cells. Teaching is an integral part of his daily life having supervised and taught a few thousand students at all levels of education. He designs hands-on experiments ranging from those suitable for second year students up to large scale research experiments such as a THz and infrared chemical nanoscope at the synchrotron ANKA using near-field effects. In this context, since 2007, he administrates for the chair of physical chemistry II at RUB large scale and multi-national projects funded by BMBF and EU, respectively.

Since 1995, he has received several Japanese Center of Excellence (COE) awards at the National Institute of Communication and Technology (NICT, Tokyo, formerly known as CRL) and was elected in 2009 and re-elected in 2011 as honorable guest professor at Shizuoka University, Japan. He serves on a yearly basis as a visiting guest professor at the Dept. of Nanovision Technology and the Graduate School of Science and Technology, hosted by Prof. Norihisa Hiromoto at the Hamamatsu Campus. He is a lifetime member of the Optical Society of America and as well a member of DPG, Deutsches THz Zentrum, DBG, JSPS-Club, and German Humboldt-Club.

In 2010 he initiated the regional group "Ruhrgebiet" of the German Humboldt-Club supported by the Alexander von Humboldt-foundation and, as a speaker for this group, he fosters multilateral and multicultural exchanges between scientists across faculties and disciplines.

Further details can be found under at http://homepage.rub.de/Erik.Bruendermann