HRL-Laudatio at MC2017

Good morning, Ladies and Gentlemen,

I would like to welcome you to this morning plenary lectures. First, we start with the Harald Rose lecture.

The "Harald Rose Distinguished Lecture" is an award dedicated for honoring scientists, who are actively working on electron microscopy methods in the area of particle and wave optics, image formation, and/or energy filtering in both research and education. This award is sponsored by CEOS Company and can be granted every two years by the German Society for Electron Microscopy. This morning, I especially would like to welcome Prof. Harald Rose, after whom the prize is named.

As president of the Germany Society for Electron Microscopy as well as a student of him, I have the privilege to introduce this year awardee for the "Harald Rose Distinguished Lecture": Prof. Hannes Lichte from Dresden or better known from the Triebenberg Laboratory. Hannes Lichte's name is closely linked with his pioneering work in electron interference and off-axis electron holography. Being a student of Gottfried Möllenstedt in Tübingen, he is the one pushing holography to atomic resolution with a-posteriori correction of aberrations. By this, he has realized the dream of Dennis Gabor for correcting aberration in a TEM by holography.

With constructing the Triebenberg laboratory, he has established a reference lab from which many other labs has learned how to achieve a

low-disturbance area for electron microscopy. He has attracted many undergraduate and graduate students, postdocs and scientists to increase the knowledge on the fundamental understanding of electron interferences, to push the a-posteriori aberration correction and to show various applications of electron holography e.g. in the semiconductor research.

He organized several legendary workshops on electron holography and he offered the opportunities of this lab to many scientists around the world for a sabbatical at the Triebenberg.

One of the main interests of his scientific life is to explain his knowledge of electron waves and to teach: for example young people – from the Kids-University up to graduate students, but also to give always exciting lectures at the many conferences he has attended. He covers both aspects of a good scientist: he has a very broad understanding of all aspects of physics of electron microscopy from the gun down to the image recording system and, in addition, very importantly he is always a very excited and strongly committed teacher. He is a professor in the best sense!

Please welcome with me Hannes Lichte

=> awarding the prize

Now it is how time that Hannes Lichte is going to give his Harald Rose Lecture with the title

"**Electron waves for comprehensive analysis of materials properties**"