

Report DACG symposium 4 October 2019

On 4 October, 2019, the DACG organized its fall meeting “*Electron microscopy for crystal growth studies*” at ThermoFisher Scientific in Eindhoven. Local organizer and host was Nico Clemens. After the opening of the symposium by Hans te Nijenhuis and Nico Clemens, the first lecture was given by Daniel Phifer giving the audience a brief historic overview of ThermoFisher Scientific company as well as an introduction in scanning and transmission electron microscopy. After this opening lecture, Hans Raaijmakers – also from ThermoFisher Scientific – continued on micro-electron diffraction, being a relatively new application in electron microscopy. Laura Spix from Aspen Oss presented on the important role SEM plays in troubleshooting and process optimization of an active pharmaceutical ingredient (API) that they produce. Due to absence of the originally scheduled speaker Paolo Accordini from Radboud University Nijmegen, René de Gelder (of the same university) kindly offered to present results on the pitfalls, challenges and solutions of the so-called crystalline sponge method. And last-but-not-least, Marcel Verheijen (TU Eindhoven) presented TEM studies on nanoparticles, nanowires and 2-D materials.



Daniel Phifer (ThermoFisher Scientific): *Introduction in electron microscopy*



Hans Raaijmakers (ThermoFisher Scientific): *Micro-Electron Diffraction: a new application in electron microscopy*



Laura Spix (Aspen Oss): *SEM in troubleshooting / process optimization*



René de Gelder (Radboud University Nijmegen): *The crystalline sponge method: pitfalls, challenges and solutions*



Marcel Verheijen (TU Eindhoven): *0-D, 1-D and 2-D crystal growth; TEM studies of nanoparticles, nanowires and 2-D materials*



During the fall symposium, the DACG traditionally holds its annual meeting. This meeting was held directly after lunch.

The symposium concluded with a lab tour during which the participants received a glimpse of the impressive Clean Room facilities and the manufacturing process of transmission electron microscopes at ThermoFisher Scientific in Acht.

The DACG symposium was attended by 35 participants. On behalf of the DACG board, we would like to acknowledge Nico Clemens and his colleagues for their support in the organization of this successful symposium and for hosting the DACG community at ThermoFisher Scientific.

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