

Begrunnelse for foreslått komite til 1:e Am stillingen i Halvlederfysikk

Professor *Aasmund Sudbø* is since a long time a well-known and well-respected scientist and teacher at UiO. His scientific interests encompass optical properties of semiconductor materials, like silicon and compound semiconductors, and the application of these materials for solid state lasers, optical fiber communication, optical filters, photovoltaics and nano-photonics.

We consider Professor Sudbø as a highly suitable member and leader of the evaluation committee, and he has a wealth of experience with this type of work for permanent academic positions.

Professor *Francesco Priolo* is since 2001 a full professor in semiconductor physics at the University of Catania, Italy. His main research interests include electronic materials, ion-beam and laser processing, photonics, optical and electrical characterization of semiconductors, photovoltaics, nanostructures and nanotechnologies in semiconductors. He has published more than 300 articles in scientific journals (more than 8000 citations and h-index of 42), he is the editor of 10 books, holds 3 patents and has given more than 80 invited talks at international conferences/meetings. He holds several commissions of thrusts; for instance, he was the president of the European Materials Research Society (E-MRS) from 2009 to 2011.

We consider Professor Priolo as one of the leading European scientists in the field of semiconductor physics with an outstanding track record and both a broad and deep expertise in physics and materials science. He is, indeed, regarded as a very suitable member of this evaluation committee.

Chief scientist/Research leader *Randi Haakenaasen* received her PhD in Physics from Harvard University, USA, in 1995. After holding post-doc and researcher positions at several prestigious institutions in USA, she returned to Norway in the late 1990's and since then she been affiliated with FFI in Kjeller. She was awarded 'professor competence' in 2001 and holds since 2009 a position as chief scientist (research leader) at FFI. Her expertise is in semiconductor physics and nanotechnology with emphasis on growth (using techniques like molecular beam epitaxy and liquid phase epitaxy) and electrical/optical characterization of nanostructures in compound semiconductor materials (~40 high level scientific papers and book chapters). She has a broad overview of the semiconductor field and has several commissions of thrusts, like board member of the former Nanomat program conducted by the Research Council of Norway, board member of Teknologirådet and board member of NanoLab at NTNU.

We regard chief scientist Randi Haakenaasen as a highly suitable member of this evaluation committee and are thankful for her willingness to accept this task.