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March 5, 2017

Dear Bob,

I am very happy to support your nomination of Prof. Velimir Radmilovic for the MRS Serbia Award.

I have known Mimo since he first came to Berkeley, and I was pleased be able to attract him as a staff scientist at NCEM for several extended periods between 1993 and 2011, when I was directing NCEM as DOE's foremost user facility for electron microscopy. During this period he was one of the most experienced staff members who contributed enormously to the success of the facility. Mimo is a materials scientist of the highest caliber and a gifted electron microscopist. His work has earned him an international reputation as a researcher of great substance and impact.

Since 1998, my own research collaboration with him has concentrated on phase transformations and interfaces in metals, alloys and ceramics. This collaboration has generated many substantial papers on fundamental processes, for example strain compensation as a way to increase precipitate density, the atomic mechanism of grain boundary motion, or the use of polar growth kinetics to generate texture in thin film ceramics - to name just a few. The most enjoyable of these was the project on monodisperse core-shell precipitates, which Mimo initiated based on his expertise in Al alloys. This resulted in the first demonstration of size focusing in a solid-state precipitation reaction and could have important implications for alloy design.

During his period as an NCEM staff scientist, Mimo also made significant contributions to the development of novel techniques and instrumentation, most notably the TEAM project, which brought the world's most advanced electron microscope to NCEM. In addition, his participation in testing and refining the pioneering TEAM detector helped develop a new generation of direct electron detectors, which have revolutionized cryo-electron microscopy for biology.

His skill as an electron microscopist is outstanding, combining an unusual talent for discovery and quantitative analysis with a keen eye for the beauty of materials microstructures. More than anyone else at NCEM, he has generated a series of

iconic images that have been used in posters and brochures, displays at LBL and the Department of Energy, and title pages in numerous journals.

Mimo is well-known and respected in the international scientific community. He has collaborated with scientists from the US and Canada, Mexico and South America, Europe, Scandinavia, Korea and Japan. But the bulk of his collaborations include colleagues from the former Yugoslavia, where he has acted as a mentor to young scientists and a gateway to the international community.

Given his broad contribution to materials science, his impact on applications of advanced microscopy, and his position of a role model for young materials scientists in Serbia, Mimo is an outstanding candidate for the MRS Serbia award. I am pleased to support his nomination without reservations.

If there is any further support I can provide, please don't hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ulrich Dahmen', written in a cursive style.

Ulrich Dahmen  
Senior Advisor, NCEM