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## Göran Possnert and his importance for the Lund radionuclide research

*Thursday, 24 October 2024 11:00 (20 minutes)*

The passing of Göran Possnert in October 2022 marked a significant loss to the cosmogenic radionuclides community. His pioneering work laid the foundation for many advancements in this area, and his contributions continue to influence current research and methodologies. The cosmogenic radionuclide group in Lund, led by Raimund Muscheler, has cooperated with Göran Possnert since 2007, focusing on  $^{10}\text{Be}$  and  $^{36}\text{Cl}$  measurements from ice cores with applications in solar and geomagnetic reconstructions. Göran's extensive knowledge and innovative approach enabled our group to achieve several significant milestones, including identifying sun-climate relationships for the first time over the last glaciation period (Adolphi et al., 2014), the first ice core evidence for the extreme solar storms in 775/4 A.D. (Mekhaldi et al., 2015), the latest geomagnetic reconstruction over the glacial period based on the Greenland ice cores (Zheng et al., 2021), and much more. He was instrumental in supporting not only PhD but also master projects in our group. The legacy of Göran's work continues through the many researchers he mentored and the significant contributions he made to our understanding of radionuclides in ice cores. As we honor his memory, we acknowledge the profound impact he had on our work and express our deep gratitude for his invaluable contributions. His legacy will continue to inspire and guide us in future endeavors.

### Student Submission

No

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