Eric Viklund

Job Number: ACCL23-12 Starting Date: October, 2024

McCormick School of Engineering, Northwestern University

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Born: May 23, 1997—Stockholm, Sweden

Nationality: Swedish

Current and Past Position

Since 2019 Graduate Student, McCormick School of Engineering, Northwestern University
2017-2019 Manufacturing Engineer, GKN Aerospace, Newington, Connecticut, USA

Research Experience

Undergraduate Research Assistant – High Vacuum and Cryogenic Equipment
 Graduate Researcher – SRF Technology, Thin Film Science, Surface Characterization

Education

BS in Physics, *Summa Cum Laude*, University of Connecticut Exp. 2024 PHD in Materials Science, Northwestern University

Grants, Honors & Awards

Accelerator PhD Program, Fermi National Accelerator Laboratory
IPAC'23 Student Grant

Service to the profession

Peer Reviewer for Physical Review Accelerators and Beams
University of Connecticut, Student Tutor
Northwestern University, Teaching Assistant

Talks & Presentations

2021, 2023 Student Poster Presentation, International Conference on Radio-Frequency Superconductivity (SRF)

Student Poster Presentation, International Particle Accelerator Conference (IPAC)

2022 Oral and Poster Presentations, Applied Superconductivity Conference (ASC)

2022 Invited Speaker, TESLA Technology Collaboration (TTC)

Invited Speaker, Cryogenic Engineering Conference/International Cryogenic Materials conference (CEC/ICMC)

Publications

2021

- [1] E. Viklund, D. N. Seidman, D. Burk, and S. Posen, "Improving nb3sn cavity performance using centrifugal barrel polishing," *Superconductor Science and Technology*, 2023. [Online]. Available: http://iopscience.iop.org/article/10.1088/1361-6668/ad0b2d.
- [2] E. Viklund, J. Lee, D. Seidman, and S. Posen, "Three-dimensional reconstruction of nb 3 sn films by focused ion beam cross sectional microscopy," *IEEE Transactions on Applied Superconductivity*, vol. 33, no. 5, pp. 1–4, 2023.
- [3] V. Chouhan, T. Ring, E. Viklund, and G. Wu, "Electropolishing Study on Nitrogen-Doped Niobium Surface," in *Proc. 21th Int. Conf. RF Supercond. (SRF'23)*, (Grand Rapids, MI, USA), ser. International Conference on RF Superconductivity, JACoW Publishing, Geneva, Switzerland, Sep. 2023, WEIXA05, pp. 641–645, ISBN: 978-3-95450-234-9. DOI: 10.18429/ JACoW SRF2023 WEIXA05. [Online]. Available: https://jacow.org/srf2023/papers/weixa05.pdf.
- [4] E. Viklund, L. Grassellino, S. Posen, T. Ring, and D. Seidman, "Studies on the Fundamental Mechanisms of Niobium Electropolishing," in *Proc. SRF'21*, (East Lansing, MI, USA), ser. International Conference on RF Superconductivity, JACoW Publishing, Geneva, Switzerland, Oct. 2022, SUPCAV016, pp. 50–52, ISBN: 978-3-95450-233-2. DOI: 10.18429/JACoW-SRF2021-SUPCAV016. [Online]. Available: https://jacow.org/srf2021/papers/supcav016.pdf.

Last updated: November 17, 2023 • https://github.com/EricViklund/CV