

## Selected Presentations

**Andrew S. Voyles**

November 25, 2024

- A.S. Voyles, “Methods for Preparation and Characterization of Thin Arsenic Targets for Stacked Target Experiments (aka: What Works, and What Doesn’t).” 31<sup>st</sup> Conference of the International Nuclear Target Development Society, Knoxville, Tennessee. 20 August 2024.
- A.S. Voyles, “Nuclear Data for Isotope Production: Target Fabrication and Reaction Evaluation in the Berkeley Nuclear Data Group.” ORNL Radioisotope Portfolio Seminar, Oak Ridge, Tennessee. 15 August 2024. (invited)
- A.S. Voyles, “How the Pølse Gets Made: Target Fabrication for Nuclear and Medical Physics.” Oslo Nuclear Physics Workshop, Oslo, Norway. 14 December 2023. (invited)
- A.S. Voyles, “TR-4: Isotope Production Capabilities at Berkeley.” Norwegian Nuclear Research Centre Kickoff Meeting, Oslo, Norway. 11 December 2023. (invited)
- A.S. Voyles, “Review of the LBNL Measurement Program.” CSEWG Annual Meeting, Upton, New York. 17 November 2023. (invited)
- A.S. Voyles, “Nuclear Data Needs for High-Energy (p,x) Isotope Production & Evaluation.” IAEA Technical Meeting on Nuclear Data for Medical Applications, Vienna, Austria. 28 August 2023. (invited)
- A.S. Voyles, “Methods for preparation and characterization of thin arsenic targets for stacked-target experiments.” American Chemical Society Fall 2023 Meeting, San Francisco, CA. 17 August 2023.
- A.S. Voyles, “<sup>169</sup>Yb Gamma Calibration Source Production.” Microcalorimetry and Nuclear Data (MiND 2023), Washington, D.C.. 28 June 2023. (invited)
- A.S. Voyles, “Nuclear Data Needs for Auger Electrons.” Microcalorimetry and Nuclear Data (MiND 2023), Washington, D.C.. 27 June 2023. (invited)
- A.S. Voyles, “Investigating high-energy proton-induced reactions: Implications for level densities and the preequilibrium exciton model.” 16<sup>th</sup> Varenna Conference on Nuclear Reaction Mechanisms, Varenna, Italy. 13 June 2023.
- A.S. Voyles, “Investigating high-energy proton-induced reactions: Implications for level densities and the preequilibrium exciton model.” Ohio University Institute of Nuclear & Particle Physics Seminar Series, Athens, OH. 18 October 2022. (invited)
- A.S. Voyles, “Isotope Production Needs for Uncertainty Quantification.” Nuclear Data Uncertainty Quantification Working Meeting, *online*. 12 October 2022. (invited)
- A.S. Voyles, “Isotope Production Activities at LBNL: The Tri-Lab Effort in Nuclear Data (TREND), and Novel Production Pathways for <sup>225</sup>Ac.” 18<sup>th</sup> International Workshop on Targetry and Target Chemistry, Whistler, Canada. 24 August 2022.
- A.S. Voyles, “Investigating High-Energy Proton-Induced Reactions: Implications for Level Densities and the Preequilibrium Exciton Model.” 8<sup>th</sup> Workshop on Nuclear Level Density and Gamma Strength, Oslo, Norway. 10 May 2022.
- A.S. Voyles, “Nuclear data for isotope production: From Level Densities to the Bedside.” Lawrence Berkeley National Laboratory Nuclear Science Division Staff Meeting, Berkeley, CA. 29 June 2021. (invited)

- A.S. Voyles, "Nuclear data for isotope production." Symposium on Radiotherapeutics: From Isotope Production to Targeted Delivery, American Chemical Society Spring 2021 Meeting, *online*. 06 April 2021. (invited)
- A.S. Voyles, " $^{238}\text{U}(\text{p},\text{xn})$  and  $^{235}\text{U}(\text{d},\text{xn})$   $^{235-237}\text{Np}$  Nuclear Reaction Cross Sections Relevant to the Production of  $^{236\text{g}}\text{Np}$ ." Workshop for Applied Nuclear Data Activities, *online*. 03 February 2021.
- A.S. Voyles, "Nuclear Data 101: Predictive Codes for Isotope Production." Workshop for Applied Nuclear Data Activities, *online*. 27 January 2021. (invited)
- A.S. Voyles, "Targetry Fabrication for Nuclear Data Measurements." Workshop for Applied Nuclear Data Activities, Washington, D.C.. 04 March 2020. (invited)
- A.S. Voyles, "Using New Radiopharmaceuticals to Treat Disease." Nerd Nite East Bay, Oakland, CA. 24 June 2019. (invited)
- A.S. Voyles, "Novel Production Methods for  $^{225}\text{Ac}$ ." Lawrence Berkeley National Laboratory Nuclear Science Division Staff Meeting, Berkeley, CA. 05 March 2019. (invited)
- A.S. Voyles, "Capabilities for Isotope Production Nuclear Data Measurements at LBNL." Workshop for Applied Nuclear Data Activities, Washington, D.C.. 23 January 2019. (invited)
- A.S. Voyles, "Isotope Production Activities at LANSCE-IPF: Development of a new  $\text{Nb}(\text{p},\text{x})^{90}\text{Mo}$  Monitor Reaction and  $\text{La}(\text{p},\text{x})$  Production Cross-Section Measurements." 2018 LANSCE User Group Meeting, Santa Fe, NM. 05 November 2018. (invited)
- A.S. Voyles, "Isotope Production Activities at LBNL and LANSCE-IPF: Development of a new  $\text{Nb}(\text{p},\text{x})^{90}\text{Mo}$  Monitor Reaction and  $\text{Fe},\text{La}(\text{p},\text{x})$  Production Cross-Section Measurements." 17<sup>th</sup> International Workshop on Targetry and Target Chemistry, Coimbra, Portugal. 30 August 2018.
- A.S. Voyles, "Isotope production cross section measurements at the HFNG, LANL-IPF, and LBNL." 14<sup>th</sup> Nordic Meeting on Nuclear Physics, Longyearbyen, Norway. 24 May 2018.
- A.S. Voyles, "Cross-Section Measurements for Novel Medical Radionuclides at UCB/LBNL: The Challenge of 'Simple' Experiments." UC Berkeley NE Dept. Graduate Colloquium, Berkeley, CA. 12 February 2018. (invited)
- A.S. Voyles, "Medical Isotope Production at Berkeley." University of Oslo Nuclear Physics Summer School, Oslo, Norway. 19 May 2017. (invited)
- A.S. Voyles, "Spin Distribution of Excited Nuclear States in  $^{\text{nat}}\text{Fe}(\text{p},\alpha\text{n})$ ." 6<sup>th</sup> Workshop on Nuclear Level Density and Gamma Strength, Oslo, Norway. 08 May 2017.
- A.S. Voyles, "Experimental Activities in Berkeley." US National Nuclear Data Week (CSEWG), Upton, NY. 14 November 2016.
- A.S. Voyles, " $^{64}\text{Cu}$  and  $^{47}\text{Sc}$  (n,p) Cross-Section Measurements for Medical Radionuclide Production." 16<sup>th</sup> International Workshop on Targetry and Target Chemistry, Santa Fe, NM. 30 August 2016.
- A.S. Voyles, "Neutron Cross-Sections for Radionuclide Production" (Poster). University & Industry Technical Interchange 2016 Review Meeting, Raleigh, NC. 07 June 2016.
- A.S. Voyles, "GEANT4 Simulation of Irradiation Facilities and Neutron Sources at University of Utah TRIGA for Nuclear Forensics and Detection." AIChE Annual Meeting, Minneapolis, MN. 19 October 2011.
- A.S. Voyles, "GEANT4 Simulation of Irradiation Facilities and Neutron Sources at University of Utah TRIGA for Nuclear Forensics and Detection." 2<sup>nd</sup> National Conference in Advancing Tools and Solutions for Nuclear Material Detection, Salt Lake City, UT. 02 May 2011.

A.S. Voyles, “GEANT4 Simulation of Irradiation Facilities at University of Utah TRIGA (2011).” ANS Student Conference, Atlanta, GA. 15 April 2011.

## 1 ORGANIZATION OF CONFERENCES AND SYMPOSIA

- Co-Chair, Microcalorimetry and Nuclear Data (MiND 2023) Workshop, 27–28 June 2023.
- Session Chair, “Department of Energy Isotope Programs”, Workshop for Applied Nuclear Data Activities, 27 February – 02 March 2023.
- Session Chair, “Predictive Codes for Isotope Production”, Workshop for Applied Nuclear Data Activities, 25 January – 03 February 2021.