



Shaft Equipment Accessibility Workshop Overview

Linda Valerio

MAGIS-100 Modular Connection Node Workshop

12 July 2022

Workshop introduction

It is not expected to answer all questions today. Goals include:

- Confirm all access challenges and requirements are identified.**
 - Discuss and select the most promising solutions to pursue.**
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To stay on schedule, please minimize interruptions to speakers unless brief clarifications are needed. Facts will be presented first, then discussion is scheduled for the final portion of the workshop.

At conclusion of workshop, you are encouraged to send your list of remaining questions/concerns to Linda to compile and share. This will guide our next efforts.

Workshop agenda

MAGIS-100 Shaft Equipment Accessibility Workshop		
Tuesday Jul 12, 2022, 12:00 PM → 3:00 PM US/Central		
Description	In-shaft equipment accessibility topics to be covered: <ul style="list-style-type: none">• Position people close to the equipment to perform final installation tasks and maintenance, and keep them safe and stable while they work (personnel basket or other moving platform)• Reach equipment after getting into position (conduits and cable trays, vacuum equipment, cameras, optics, components in atom sources, etc.)	
12:00 PM → 12:10 PM	Overview Speaker: Linda Valerio (Fermilab)	🕒 10m
12:10 PM → 12:25 PM	Shaft accessibility - geometric constraints, safety, and requirements Speakers: Noah Curfman (Fermilab), Linda Valerio (Fermilab)	🕒 15m
12:25 PM → 12:40 PM	Access requirements and concerns - power and cables/fibers Speaker: Steve Chappa (FNAL)	🕒 15m
12:40 PM → 12:55 PM	Access requirements and concerns - atom source regions + retro mirror Speaker: Jason Hogan (Stanford University)	🕒 15m
12:55 PM → 1:10 PM	Access requirements and concerns - vacuum and bake equipment Speaker: Ron Kellett (Fermilab)	🕒 15m
1:10 PM → 1:25 PM	Access requirements and concerns - modular node cameras Speaker: Murtaza Safdari (Stanford University)	🕒 15m
1:25 PM → 1:35 PM	Break	🕒 10m
1:35 PM → 2:15 PM	Proposed access methods Summary of all proposed access methods with benefits and concerns for each. <ol style="list-style-type: none">1. Personnel basket2. Commercial moving platforms3. Custom moving platform Speakers: Noah Curfman (Fermilab), Victor Guarino (Argonne), Roger Kellogg (Argonne)	🕒 40m
2:15 PM → 3:00 PM	Discussion	🕒 45m