

NIOSH Research and Planning

- Lisa Steiner
- Todd Ruff
- Dawn Castillo
- David Fosbroke





- Internally Funded Projects
- Internal Reports
- Guidelines and Standards
 Committee Activities
- Related NIOSH Centers

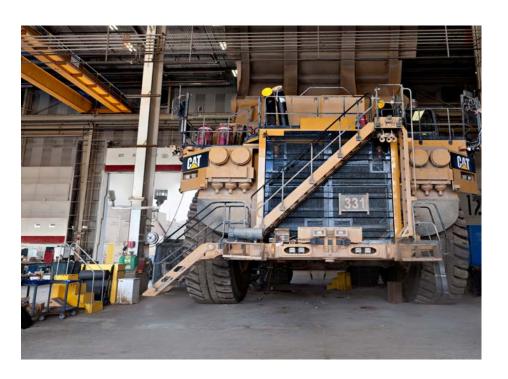


Internally Funded Projects

- Characterization of Haul Truck Health and Safety Issues
- Validating Collision Warning and Avoidance System Detection Performance for Surface Mining Haul Trucks
- Wireless Network Performance Requirements for Safety-Critical Systems in Mining

Internal Reports

- Mine of the Future: Disruptive Technologies that Impact our Future Mine Worker Health & Safety Research Focus (2/2018)
- Haul Truck Health and Safety Issues Preliminary Considerations and Research Roadmap (4/2020)



Guidelines and Standards Committee Activities

- Global Mining Guidelines Group (GMG)
- Earth Moving Equipment Safety Round Table (EMESRT)
- ISO Standards Committee

NIOSH Center Activities Related to Automation and Emerging Technologies

- Center for Occupational Robotics Research (CORR)
- Center for Motor Vehicle Safety (CMVS)

- Mining Advisory Committee
- Program Review
 Recommendations
- Request for Information
- Research Contracts and Agreements

- Mining Safety and Health Research Advisory Committee (MSHRAC) – Metal Mining Automation and Advanced Technology workgroup
 - Industry workshop: "Emerging Technologies in Metals Mining: Health and Safety Implications", Denver, 2018
 - Recommendations report, 2019
- NIOSH Mining Program External Review
- Federal Register RFI



2020 NIOSH Mining Program Broad Agency Announcement and Agreements

- Automation Experience with Global Perspective,
 University of Pittsburgh with University of Queensland
- Intrinsically-Safe Mine Rescue UAV Design, Xtraction Science and Technology, Inc.
- Autonomous Docking of Face Haulage Mining Machinery in GPS-Denied Environments, University of Kentucky
- Advance Sensors and Robotic Deployment Platform for Increased Safety and Rapid Response, IAA with NASA JPL/Caltech

Thanks for your attention





