

Mining Publications List

1995 - 1999



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service Centers for Disease Control and Prevention National Institute for Occupational Safety and Health





MINING PUBLICATION LIST

1995 - 1999

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MINE SAFETY AND HEALTH

Reports of Investigation(RIs) present he results of original mining health and safety research. They describe individual, short-termstudies and include the objective of the research, the materials and techniques used, and the results of tests or experiments.

InformationCirculars (ICs) present information compiled and analyzed by mining health and safety researchers. They includehistorical and statistical data, surveys of mining and operating activities, computer program descriptions and user guides, and annotated bibliographies.

Technology News a one-pagelyer used to announce a milestone in mining health and safety research, technology ready for transfer to industry, or an opportunity for cooperative research and development.

MiningHealth and Safety Focus is a newsletter issued periodically on different topics to apprise readers of tangible research results and to expedite the transfer of new technologies to customers. Each section describes what is new or changed in relation to current practices or technologies in mines today.

NIOSHNumbered Publications are generated internally, by contract, or by an interagency agreement. Publications in this categoryinclude Criteria Documents (CD), alerts, Current Intelligence Bulletins (CIB), Health and Safety Guides (HSG), symposiumor conference proceedings, NIOSH administrative and management reports, scientific investigations, data compilations, and worker-related booklets.

MINE SAFETY AND HEALTH

Reports of Investigations (RIs)

Barrett EA, Kowalski KM [1995]. Effective hazard recognition training using a latent-image, three-dimensional slide simulation exercise. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9527. NTIS stock number: PB95-170379.

BeusMJ, OrrTJ [1995]. Computer modeling and analysis of the Greens Creek Mine, Admiralty Island, AK. Spokane, WA:U.S. Department of the Interior, Bureau of Mines, RI 9530. NTIS stock number: PB95-176418.

PariseauWG, Johnson JC, McDonald MM, Poad ME [1995]. Rock mechanics study of shaft stability and pillar mining, HomestakeVine, Lead, SD (in three parts): 1. Premining geomechanicalnodeling using UTAH2. Spokane, WA: U.S. Department the Interior, Bureau of Mines, RI 9531. NTIS stock number: PB95-178927.

Whyatt JK, Beus MJ [1995]. In situ stress at the Lucky FridayMine (in four parts): 1. Reanalysis of overcore measurementsfrom 4250 level. Spokane, WA: U.S. Department of the Interior, Bureau of Mines, RI 9532. NTIS stock number: PB95-179859.

OylerDC [1995]. A case study of shield-strata interaction at a southern Ohio mine. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9534. NTIS stock number: PB95-178901.

Smith AC, Pro RW, Lazzara CP [1995]. Performance of automaticsprinkler systems for extinguishing incipient and propagating: onveyor belt fires under ventilated conditions. Pittshirgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9538. NTIS stock number: PB95-200879.

YenchekMR, Schuster KC, Hudson AJ [1995]. Operational characteristics ftrailing cable splices. Pittsburgh, PA: U.S. Department the Interior, Bureau of Mines, RI 9540. NTIS stock number: PB95-209227.

Ruff TM [1995]. Teleoperation of a compact loader-trammer. Spokane, WA: U.S. Department of the Interior, Bureau of Mines, RI 9545. NTIS stock number: PB95-216305.

Wang RC, Shapiro DE [1995]. Bending fatigue tests on flattenedstrand wire rope at high working loads. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9547. NTIS stock number: PB95-216297.

ColinetJF, Spencer ER [1995]. Dust sources and controls for multiple-machin longwall faces. Pittsburgh, PA: U.S. Departmentof the Interior, Bureau of Mines, RI 9548. NTIS stock number: PB95-220141.

Edwards C, Morrow GS [1995]. Development of coal combustions ensitivity test for smoke detectors. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9551. NTIS stock number: PB95-219648.

TimkoRJ, Derick RL [1995]. Detection and control of spontaneousheating in coal mine pillars Ca case study. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9553. NTIS stock number: PB95-236790.

Dubaniewicz TH Jr., Chilton JE [1995]tically powered remotegas monitor. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9558. NTIS stock number: PB95-236808.

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TesarikDR, Seymour JB, Yanske TR, McKibbin RW [1995]. Stabilityanalysis of a backfilled room-and-pillar mine. Spokane, WA: U.S. Department of the Interior, Bureau of Mines, RI 9565. NTIS stock number: PB95-251872.

PetersonJS [1995]. Influence of environmental factors on sparkignition probability. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9566. NTIS stock number: PB95-269800.

WhyattJK, Beus MJ, Larson MK [1995]. In situ stress at the LuckyFriday Mine (in four parts): 3. Reanalysis of overcore measurement from the Star Mine. Spokane, WA: U.S. Department of the Interior, Bureau of Mines, RI 9567. NTIS stock number PB95-271276.

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PariseauWG, Johnson JC, McDonald MM, Poad ME [1995]. Rockmechanics study of shaft stability and pillar mining, HomestakeMine, Lead, SD (in three parts): 2. Mine measurements and confirmation of premining results. Spokare, WA: U.S. Department of the Interior, Bureau of Mines, RI 9576. NTIS stock number: PB96-107081.

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VaughtC, Fotta B, Wiehagen WJ, Conti RS, Fowkes RS [1996]. A profile of workers' experience and preparedness in respondingo underground mine fires. Pittsburgh, PA: U.S. Departmenof the Interior, Bureau of Mines, RI 9584. NTIS stock number: PB96-147848.

MironY [1995]. Gel sealants for the mitigation of spontaneous heatings in coal mines. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9585. NTIS stock number: PB96-131966.

Edwards JC, Morrow GS [1995]. Evaluation of smoke detectorsfor mining use. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9586. NTIS stock number: PB96-128566.

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Cecala AB, Timko RJ, Prokop AE [1995]. Reducing respirabledust levels during bag conveying and stacking using bag and belt cleaner device. Pittsburgh, PA: U.S. Departmenof the Interior, Bureau of Mines, RI 9596. NTIS stock number: PB96-135470.

BeusMJ, Orr TJ, Whyatt JK [1996]. Application of field measurements and computer modeling to evaluate deep

mine shaft stability in northern Idaho. Spokane, WA: U.S. Department the Interior, Bureau of Mines, RI 9600. NTIS stock number: PB96-140181.

OrrTJ, Beus MJ [1996]. Real-time monitoring of field measurements for mine design: Greens Creek Mine, Admiralty Island, Alaska. Spokane, WA: U.S. Department of the Interior, Bureau of Mines, RI 9613. NTIS stock number: PB96-144183.

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Colinet JF, Jankowski RA [1996]. Dust control considerations for deep-cut mining when utilizing exhaust ventilationand a scrubber. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9615. NTIS stock number: PB96-147798.

Organiscal JA, Page SJ [1996]. Assessment of airborne dust generated from small truck-mounted rock drills. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, RI 9616. NTIS stock number: PB96-155098.

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Whyatt JK, White BG, Johnson JC [1996]. Strength and deformation properties of belt strata, Coeur d'Alene mining district, ID.Spokane, WA: U.S. Department of the Interior, Bureau of Mines, RI 9619. NTIS stock number PB96-159009.

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Friel GF, Edwards JC [1996]. Mine fire detection by ultrasonic ranging systems. Pittsburgh, PA: U.S. Department of Energy, RI 9624. NTIS stock number: PB96-188149.

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De Rosa MI [1996]. A 20-liter furnace test method to determine the combustion gas toxicity of conveyor belts. Pittsburgh,PA: U.S. Department of Energy, RI 9626. NTIS stock number: PB96-202619.

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BeusMJ, RuffTM [1997]. Development of a mine hoist and orepass research facility. Spokane, WA: U.S. Department of Healthand Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupationa Safety and Health, DHHS (NIOSH) Publication No. 97-134, RI 9637.

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phase-angleneasurements. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 97-120, RI 9638.

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FranksRA, Opferman JJ, Friel GF, Edwards JC [1997]. A second-generationemote optical methanometer. Pittsburgh, PA:U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, NationalInstitute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 97-126, RI 9640.

ContiRS, Yewen RG [1997]. Evaluation of a signaling and warningsystem for underground mines. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 97-127, RI 9641.

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CorteseRA, Perlee HE [1998]. Full-scale testing of the float dust deposition meter. Pittsburgh, PA: U.S. Department of Healthand Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for OccupationaSafety and Health, DHHS (NIOSH) Publication No. 98-139, RI 9643.

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OrganiscakJA, Page SJ [1998]. Investigation of coal properties and airborne respirable dust generation. Pittsburgh,PA: U.S. Department of Health and Human Services,Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 98-160, RI 9645.

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WeissES, Cashdollar KL, Mutton IVS, Kohli DR, Slivensky WA [1999]. Evaluation of reinforced cementitious seals. Pittsburgh, PA: U.S. Department of Health and Human Services Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 99-136, RI 9647.

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Kyriazi N [1999]. Performance comparison of rescue breathingapparatus. Pittsburgh, PA: U.S. Department of Healthand Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupationa Safety and Health, DHHS (NIOSH) Publication No. 99-152, RI 9650.

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Bureau of Mines, IC 9423. NTIS stock number: PB95-181376.

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KisselIFN [1995]. How to control air contaminants during tunnelconstruction. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, IC 9439. NTIS stock number: PB96-147558.

Dohroski H Jr., Stephan CR, Conti RS [1996]. Historical summaryof coal mine explosions in the United States, 1981 to 1994. Pittsburgh, PA: U.S. Department of the Interior, Bureauof Mines, IC 9440. NTIS stock number: PB96-154687.

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Molinda GM, Mark C [1996]. Rating the strength of coal mine roof rocks. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, IC 9444. NTIS stock number: PB96-155072.

Mark C, Tuchman RJ, comp. [1997]. Proceedings: New technologyfor ground control in retreat mining. Pittsburgh, PA:U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, NationalInstitute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 97-122, IC 9446.

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MarkC, Heasley KA, Iannacchione AT, Tuchman RJ, eds. [1999]. Proceedings of the Second International Workshop on Coal Pillar Mechanics and Designitsburgh, PA: U.S. Department Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 99-114, IC 9448.

Kyriazi N [1999]. Proposal for certification tests and standardsfor closed-circuit breathing apparatus. Pittsburgh, PA:U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, NationalInstitute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 99-144, IC 9449.

Technology News

- U.S.Bureau of Mines [1995]. Updated analysis of longwall pillar stability (ALPS) computer program incorporates new coalmine roof rating (CMRR). Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Technology News 445.
- U.S. Bureau of Mines [1995]. Dust collector discharge shroudreduces dust exposure to drill operators at surface coal mines. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Technology News 447.
- U.S.Bureau of Mines [1995]. Improving the performance of longwallgob gas ventholes. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Technology News 448.
- U.S.Bureau of Mines [1995]. LAYOUT: a bump hazard assessmentmodel. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Technology News 452.
- U.S. Bureau of Mines [1996]. Navigation and control of continuousmining systems for coal mining. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Technology News 453.

NIOSH [1997]. Technology News 455: Roof hazard alert modules. Pittsburgh, PA: U.S. Department of Health and HumanServices, Public Health Service, Centers for Disease Controland Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 456: A fault detection neuralnetwork for dc trolley system protection. Pittsburgh, PA:U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 457: Online access of mining health and safety research via the Common InformationService System (CISS). Pittsburgh, PA: U.S. Departmentof Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 458: Development of a research facility to improve mine hoisting and ore pass safety. Spokane, WA: U.S. Department of Health and HumanServices, Public Health Service, Centers for Disease Control and Prevention, NationInstitute for Occupational

Safety and Health.

NIOSH [1997]. Technology News 459: Ergonomic seat reduces shock for low-seam shuttle car operators. Pittsburgh, PA: U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 460: Prototype borehole minerselectively extracts gold from permafrost. Spokane, WA:U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 461: Coal dust explosibility meter. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 462: Ground penetrating radar for highwall guidance. Pittsburgh, PA: U.S. Department Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 463: Machine-mounted continuousrespirable dust monitor. Pittsburgh, PA: U.S. Departmentof Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 464: Analysis of retreat miningpillar stability (ARMPS): version 4.0 for Windows. Pittsburgh,PA: U.S. Department of Health and Human Services,Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH [1997]. Technology News 465: Method for predictingmethane emissions on extended longwall faces. Pittsburgh,PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 466: Use of seismic tomographyto identify geologic hazards in underground mines. Spokane, WA: U.S. Department of Health and HumanServices, Public Health Service, Centers for Disease Control and Prevention, NationInstitute for Occupational Safety and Health.

NIOSH[1997]. Technology News 467: Wood crib per-

formancemodel. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for DiseaseControl and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1997]. Technology News 468: Tests for Doppler radartechnology for haulage truck backup alarms. Spokane, WA:U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1998]. Technology News 469: Sensors Warn of HazardsDuring Mine Hoisting. NIOSH. Spokane, WA: U.S Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH1998]. Technology News 470: Analysis of Hangups and Structural Failure in Underground Mine Ore Passes. Spokane, WA: U.S. Department of Health and Human Services Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1998]. Technology News 471: Innovative hazard recognition training for underground limestone miners. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Servic Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1998]. Technology News 472: Ventilation of a 40foot, two-pass, extended cut. Pittsburgh, PA: U.S. Department Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1998]. Technology News 473: The explosion hazardfrom hydrogen gas generation inside sealed frames. Pittsburgh,PA: U.S. Department of Health and Human Services,Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH [1998]Technology News 474: A passive means to detect hot trolley insulators. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH [1998]. Technology News 475: Roof monitoring safetysystemfor underground stone mines. Pittsburgh, PA: U.S. Department of Health and Human Services, Public HealthService, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH[1999]. Technology News 477: A systems safety approach programmable electronics. Pittsburgh, PA: U.S. Department Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

NIOSH [1999]. Technology News 478: Apparatus for measuringthe gas content of coal or rock core samples. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

Special Publications

MalekiH, Wopat PF, Repsher RC, Tuchman RJ, eds. [1995]. ProceedingsMechanics and Mitigation of Violent Failure in Coal and Hard-Rock Mines. Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Special Publication 01-95. May be ordered from the National TechnicalInformation Service (NTIS), 5285 Port Royal Rd., Springfeld, VA 22161; phone (703) 487-4650; fax (703) 321-8547.Please specify the following NTIS stock number when ordering: PB95-211967.

U.S.Bureau of Mines [1995]. Lake Lynn Laboratory (brochure). Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Special Publication 08-95.

U.S. Bureau of Mines [1995]. Thi Mining... Pittsburgh, PA: U.S. Department of the Interior, Bureau of Mines, Special Publication 07-95. Free copy available from Rose Ann Crotsley, NIOSH Pittsburgh Research Center, phone (412) 892-6609, e-mail: rkc6@cdc.gov

Dissertations

IannacchioneAT [1997]. Shear strength of saturated clays with floating rock particles [Dissertation]. Pittsburgh, PA: University of Pittsburgh, School of Engineering.

BauerER [1998]. The impact of extended depth-of-cut mining on coal mine ground control and worker safety [Dissertation]. University Park, PA: The Pennsylvania State University, Department of Mining Engineering.

HeasleyKA [1998]. Numerical modeling of coal mines with a laminated displacement-discontinuity code [Dissertation]. Golden, CO: Colorado School of Mines, Department of Mining and Earth Systems Engineering.

Mallett LG [1998]. Groups in emergency situations: behavior and interaction during escapes from mine fires [Dissertation].

Lexington, KY: University of Kentucky, Department of Sociology.

Mining Health and Safety Update

U.S.Department of Energy [1996]. Mining health and safety update. *March issul* focus on ground control).

U.S.Department of Energy [1996]. Mining health and safety update, *August issule* focus on human factors).

NIOSH[1997]. Mining health and safety update, Vol. 2, No. 1 (focus on human factors, fires and explosions, life support, equipment safety).

NIOSH[1997]. Mining health and safety update, Vol. 2, No.2 (focus on haulage, disaster prevention, ground control).

NIOSH[1998]. Mining health and safety update. Vol. 3, No. 1. Pittsburgh, PA: U.S. Department of Health and HumanServices, Public Health Service, Centers for Disease Control and Prevention, National Institute Occupational Safety and Health. (This issue's focus is on training and work design).

Mining Safety and Health Focus

NIOSH[1999]. Mining safety and health focus. Vol. 4, No. 1. Pittsburgh, PA: U.S. Department of Health and Human Services Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. (This issue's focus is on hearing loss prevention, dustand diesel exhaust measurement, and chemical hazards).

Flyers

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