# Nuclear News Index to Volume 48 (2005)

The following listing provides an index to feature stories, authors, special sections, regular columns, and meeting reports published in the 2005 issues of *Nuclear News*.

# Feature Index

#### January

- Dominion makes strides in nuclear station transformer and switchyard reliability, by Richard Zuercher, p. 19
- (A company initiative replaces aging components before they fail)
- What is the initial market for hydrogen from nuclear energy? by Charles W. Forsberg, p. 24
- (The question central to developing a hydrogen economy is how to get there from where we are now)
- 2004 ANS Winter Meeting: The revival of nuclear energy—Going forward together, by E. Michael Blake, Dick Kovan, and Rick Michal, p. 38
- (A report on the 2004 ANS Winter Meeting, in Washington, D.C.)
- 2004 Operating Nuclear Facility Safety: Successes and challenges, by Dick Kovan, p. 52
- (Report on a topical meeting held during the 2004 ANS Winter Meeting)
- Updates in Best Estimate Methods in Nuclear Installation Safety Analysis, by E. Michael Blake, p. 54
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- Nuclear News Index to Volume 47 (2004), p. 73
- (A brief index listing of *NN* features, authors, special sections, regular columns, and meetings of 2004)

#### February

- SPECIAL SECTION: Instrumentation & Controls, pp. 25–44
- Managing I&C reliability and obsolescence, by Ray DiSandro and Ray Torok, p. 26
- (Exelon Nuclear's strategy for managing I&C obsolescence and phasing in new technology)

- Dale Walling: Going digital at Comanche Peak, by Rick Michal, p. 33
- (Interview with the manager of the digital upgrade project at Comanche Peak)
- The control room upgrade in the Oskarshamn -1 modernization project, by Thomas Gunnarsson and Jan Erik Farbrot, p. 39
- (I&C changes at the Swedish reactor grew out of a comprehensive program worked out years in advance)
- Third Eurasian Conference on Nuclear Science and Its Application, by John Lambert, Mark Kirk, and Jerry Peterson, p. 66
- (A report on the meeting held in Tashkent, Republic of Uzbekistan, in October 2004)

#### March

- SPECIAL SECTION: 7th Annual Reference Issue, pp. 35–60
- World List of Nuclear Power Plants, p. 35

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- (Annual compendium of nuclear power plants under construction, in operation, or retired from service worldwide)
- Karen Vierow: Severe accident code analysis, by Rick Michal, p. 23
- (Interview with Karen Vierow, assistant professor in the School of Nuclear Engineering at Purdue University, on the work done using three computer programs to simulate severe accidents at nuclear power plants)
- Special Report: DOE and NRC budgets, by E. Michael Blake and Rick Michal, p. 32
- (Review and analysis of fiscal year 2006 budget requests of the Department of Energy and the Nuclear Regulatory Commission)

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- (Interview with David Fitzgerald, outage manager at AmerenUE's Callaway nuclear power plant)
- Organizing outages at Loviisa, by Dick Kovan, p. 32
- (Planning and preparation help to ensure that the Finnish plant's outages are done safely and on schedule)
- From the supply side: Outages and supply chain issues, by Rick Michal, p. 38
- (Information from George Shampy, a vendor who supplies the nuclear industry)
- Outage work at FPL Group's nuclear power plants, p. 42
- (A photo story on some outage work at FPL's St. Lucie, Turkey Point, and Millstone nuclear plants)
- Book review: TMI-2: Two takes on the 1979 accident, by Robert L. Long, p. 22
- (A review of the books *TMI 25 Years Later: The Three Mile Island Nuclear Power Plant Accident and Its Impact*, by Bonnie A. Osif, Anthony J. Baratta, and Thomas W. Conkling; and *Three Mile Island: A Nuclear Crisis in Historical Perspective*, by J. Samuel Walker)

## May

- Lisa Shell: An activist on the pronuclear side, by Rick Michal, p. 23
- (Interview with Lisa Shell, member of the North American Young Generation in Nuclear)
- U.S. capacity factors: Does new ownership matter? by E. Michael Blake, p. 26
- (Reactors that have changed owners or operators appear to have done better)
- A strategy for reviving the nuclear industry in Japan, by Tetsuji Kishida and Masao Takuma, p. 40
- (A JAIF report sets out 20 recommendations to help regain the public's trust and bring about a nuclear industry renaissance)

#### June

- Before and after  $e=mc^2$ , by E. Michael Blake, p. 28
- (A perspective on the effects on the world of one of Albert Einstein's physics papers that he wrote 100 years ago)
- Chuck Goodnight: Employment issues of today and tomorrow, by Rick Michal, p. 32
- (Interview with Chuck Goodnight, president of Goodnight Consulting)
- Book review: Iraq: Building centrifuges and destroying the Osirak reactor, by A. David Rossin, p. 39
- (A review of the books *The Bomb in My Garden*, by Mahdi Obeidi and Kurt Pitzer; and *Raid on the Sun*, by Rodger W. Claire)

#### July

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- (Information on NEA radiological protection for workers, the public, and the environment)
- Medical uses drive rise in dose in the U.K., by Dick Kovan, p. 33
- (Study finds radiation exposure from medical applications has increased slightly)
- Leo Wainhouse: First responders and training for WMD events, by Rick Michal, p. 36
- (Interview with Leo Wainhouse, manager of the Radiological Emergency Preparedness Section of the Washington State Department of Health's Office of Radiation Protection)
- The carrot or the stick: Motivating performance to achieve ALARA goals, by Ray Johnson, p. 40
- (The ongoing success of radiation safety programs is largely related to the motivation of workers to implement ALARA practices)
- William Magwood: Nuclear power has "turned the corner," by E. Michael Blake, p. 24
- (The former head of the Department of Energy's Office of Nuclear Energy, Science and Technology offers his views on nuclear power in the short and long term)
- The Race for Atomic Power, by Cynthia C. Kelly, p. 57
- (The history of the development of nuclear reactor technology at Idaho's National Reactor Testing Station)
- Reinsch: Supporting the nuclear renaissance, by Alan Fiorente, p. 66
- (Annual article on ANS's newest president)

## August

- SPECIAL SECTION: Eleventh Annual Vendor/Contractor Profiles, pp. 57–117
- (Advertorial information about products and services provided by companies to the nuclear industry)

- 2005 ANS Annual Meeting: Looking to the future: The next 50 years, by E. Michael
- Blake, Dick Kovan, and Rick Michal, p. 41 (A report on the 2005 ANS Annual Meeting)
- Space Nuclear Conference: Adjusting to a "change of course," by E. Michael Blake, p. 55
- (A report on an embedded topical meeting from the 2005 ANS Annual Meeting)
- Perspective: Diversity in nuclear—Issues, initiatives, and improvements, by Larry R. Foulke, p. 10
- (Women, African-Americans, Hispanics, and Native Americans are still under-represented in science and engineering in the United States)

#### September

- The Canadian comeback, by E. Michael Blake, p. 32
- (The long-idled Bruce A and Pickering A reactors are being given another chance to prove their value on line)
- Book review: Everything you ever wanted to know about radiation in your life, by Nancy J. Zacha, p. 25
- (A review of Alan E. Waltar's book, *Radiation and Modern Life: Fulfilling Marie Curie's Dream*)

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- (A look at how an industry working group is developing a standardized matrix to gauge equipment health)
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- (Pictures and information about the Kansas nuclear plant's job to repair bowl drain welds)
- Power uprate equipment lessons-learned database, by Martin Bridges and Neil Wilmshurst, p. 36
- (A report on the Electric Power Research Institute's Nuclear Maintenance Applications Center's work to compile uprate information)
- Quad Cities' new steam dryers project, p. 40 (For the first time ever, Exelon performed the replacement of a pair of steam dryers)
- Utility Working Conference: Business and safety go hand in hand, by Rick Michal, p. 59
- (A solid and sustained operating performance is driving the industry toward a new generation of nuclear reactors)

#### November

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- (Interview with the Secretary of the Department of Energy)
- So, what's up with education and R&D? by Rick Michal, p. 28
- (A look at what is happening with the WNU Summer Institute, the DOE's Center for Advanced Energy Studies, and some university nuclear engineering programs)
- IAEA Conference: Nonproliferation remains main issue, by Gamini Seneviratne, p. 49
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- (A new university program brings nuclear engineering students together to work at Idaho National Laboratory)
- WANO Biennial General Meeting, by Dick Kovan, p. 49
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