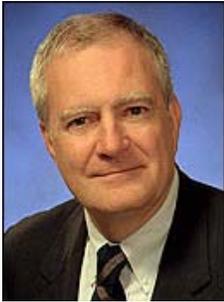




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John Marburger

Marburger Appointed Science Advisor to President Bush

- John Marburger, Director of Brookhaven Lab since March 1998, was confirmed by the Senate on October 23, 2001, as the Director of the Office of Science and Technology Policy.
- During his tenure at the Lab, Dr. Marburger provided exceptional leadership to meet Brookhaven Science Associates' commitment to excellent science and environmental stewardship, while working to ensure the Lab would be a good neighbor and community asset.
- At present, a search is being conducted for a new Laboratory Director.

Scientists Discover How Some Viruses Take Strong Hold of Cells

- When a virus invades our body, it binds to our cells and infects them. The virus latches to the cell like a key in a lock.
- Scientists at the Lab recently found that a virus called "coxsackievirus" – which infects the heart, brain, and pancreas – latches to the cell like two keys in two locks instead of one key in one lock.
- "This arrangement is advantageous for the virus," says Biologist Paul Freimuth, one of the study's authors. "The binding becomes almost irreversible, because both bonds would have to reverse simultaneously to release the virus. That increases the likelihood that the virus will infect the cell. Scientists may now try to develop drugs with double binding sites to attach to the virus before it infects cells.
- This work may also help scientists interested in developing viruses used in gene therapy. The idea behind gene therapy is to destroy a virus' disease-causing genes and replace them with therapeutic genes – ones that might fix a genetic defect that causes cancer or some other disease.

New Catalysts to Convert Renewable Feedstocks to Useful Industrial Materials

- Scientists from the Laboratory have been collaborating with DuPont's Central Research and Development Department in Wilmington, Delaware, to develop new ways of producing synthetic materials like nylon from plant-based instead of petroleum-based materials.
- Whereas petroleum-based raw materials are nonrenewable and add atmospheric carbon dioxide to the environment, the new plant-based products may offer a more economical, energy-saving and environmentally friendly alternative.
- DuPont's goal is to derive 25 percent of its revenues in 2010 from renewable raw materials. The collaborative research efforts between BNL and DuPont, carried out under a three-year Cooperative Research and Development Agreement, will help DuPont meet its goal, says Paul Fagan, principal DuPont researcher on the project.

(over)

Brookhaven National Laboratory Achieves ISO14001 Registration

- The U. S. Department of Energy's Brookhaven National Laboratory has achieved ISO 14001 registration for the entire site, becoming the first national laboratory to obtain third-party registration to this globally-recognized environmental standard.
- "In a time of ever-increasing appreciation of the fragility of our environment, Brookhaven Lab has set a gold standard of operation for all large institutions," said Secretary of Energy Spencer Abraham. "If we want to continue producing the great science that is the hallmark of the national laboratory system, we must all do our part to ensure we are operating at the highest level of environmental awareness."
- The International Organization for Standardization's ISO14001 is a standard that defines the structure of an organization's environmental management system.
- "People across the DOE complex and at other research institutions are looking at Brookhaven's environmental management system as a model program," said then Laboratory Director John Marburger. "This registration demonstrates the progress we have made at Brookhaven, and an understanding that our ability to produce great science is closely tied to our dedication to environmental stewardship."

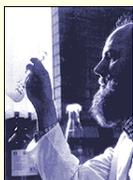
"God Bless America"

- Irving Berlin wrote "God Bless America" while stationed at Camp Upton, which is now the site of Brookhaven National Laboratory. The song, written for *Yip! Yip! Yaphank*, a soldier show, wasn't included in the production because it seemed too solemn.
- Mary Ellin Barrett wrote in her book, *Irving Berlin -- A Daughter's Memoir*, that her father reworked the song for Kate Smith, who sang it first on November 11, 1938. The song "seemed just right for the ominous uncertain autumn of 1938" just before the start of World War II. Ms. Barrett said her father "added a verse about storm clouds gathering across the sea, made a couple of lyric and melody changes in the chorus, and there it was, 'God bless America, land that I love...'"



Irving Berlin and cast members from *Yip! Yip! Yaphank* at Camp Upton in 1918.

Upcoming Lecture Open to the Public:



- **Caleb Finch, November 14, 4 p.m., Berkner Hall.** Caleb Finch, professor of Gerontology and Biological Sciences at the University of Southern California, will talk on the "Puzzles and Paradoxes of the Aging Process." Free.

Due to heightened security, everyone who enters the Laboratory site must have a photo ID.