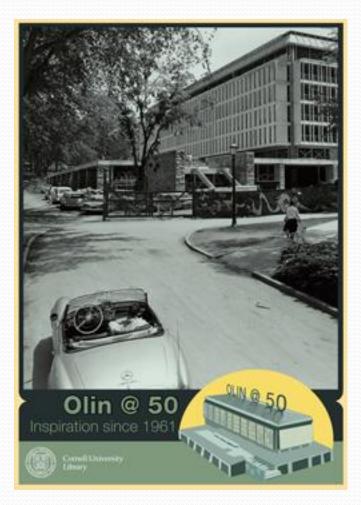
A Newborn Library and the World Beyond Using GIS to Map Some of the Most Crucial Events of 1961

Olin Library

- 1961 Olin library built; first library in the country to be purpose-built as a research facility
- Various events to celebrate the anniversary, including an exhibition on display in Olin and Uris, and online at

http://olinuris.library.cornell.edu/exhibitio ns/olinat50

- traces Olin's history through photographs, drawings and artifacts
- examines how Olin has kept pace with evolving research needs
- Map exhibit different approach
 - place a concrete local event in a global geopolitical context
 - Demonstrate the opportunities the various mapping presents to visualize our experiences



Kennedy Inauguration

- Arguably the most important event of the year
- Took place at the front steps of the U.S. Capitol building
- Poster:
 - red star in the Google Earth image indicates place of inauguration
 - Photos show different stages of the ceremony; note Kennedy does not wear a coat or hat
- Inaugural address -- fourth-shortest in U.S. history and one of the most important: addresses the most crucial issues of the time, which became parts of the exhibit



"Let Us Invoke the Wonders of Science Instead of Its Terrors"

"The terrors of science" however caused disasters all over the globe as seen from the poster:

- the deadliest nuclear reactor incident in U.S. history - the SL-1 explosion on Jan. 3 that killed 3 operators
- the "Tsar Bomba" hydrogen bomb - the most powerful nuclear weapon ever detonated
- the K-19 Soviet nuclear submarine accident that caused the death of almost 30 crew members within a year due to radiation exposure
- The Goldsboro, NC incident where a B-52 dropped a nuclear bomb that has not been retrieved yet

The SL-1 Nuclear Reactor Explosion

The SL-1 was a United States Army experimental nuclear power reactor that underwent a steam explosion and meltdown on January 3, 1961, killing althree of Is military operators. The event is the only known fatal reactor accident in the United States, and is considered the deadliset in U.S. history. It resulted in planners abandoning it dealign and completely overhauling the structure of future reactors. While the tests had shown that power was likely to have lower total costs, the financial pr am War caused the Army to favor lower initial costs. Therefore Ited the development of its reactor program in 1965, while allow ing reactors to operate. The remains of the SL-1 reactor are not



"The Terrors of Science..." J.F. Kennedy

Tsar Bomba

Tsar Bomba ("King Bomb" in Russian) is the nickname for th ogen bomb, the most po Developed by the Soviet ned to have a vield of about 100 megatons of TM the yield was cut to 50 megatons to reduce nu ssful, as it was one of the cle r bombs ever detonated. Only one bomb of this ailt and it was tested on Oct. 30, 1961, in the No er baint and it was tested on Uct. 30, 1901, in the Novaya emily a archipelago. Weighing 27 tons, the bomb was so large (28 et long and 6.6 feet in diameter) that the Soviets had to remove bomb bay doors and fuselage fuel tanks on the bomber urrying it. The bomb was attached to a 1,760-pound retardation parachute, which gave release and obsenes time to fly about 28 miles from ground zero. The ted the fireball, abo round, but it nearly rea





The Goldsboro Nuclear Bomb Accident

On January 24, 1961 a B-52 Stratofortress carrying two nu e-fueling in mid-air, when the tanker crew ort wing fuel cell. The aircraft was immed During their app ch to the airfield, th and elected at 9.000ft. Three crew me in the crash. The two nuclear w aft as it broke up. One of the earth, imbedding its nose 18 in. into ted no difficulties for recovery crews. rery crews. The o mb hit the ground at high speed with no parach ng in a farmer's field and lear retrieve all of the free ated, the more pro . Rather than con ue a losing battle to e military covered over the g sed the land to prevent acce rated the bo



MK 39 nuclear born to retrieved after the 1961 G

The K-19 Soviet Nuclear Submarine Accident

K-19 was a first-generation nuclear submarine equipped with nuclear ballistic n K-19 was a first-generation nuclear submanne equipped with nuclear summariants on July 4, 1961, K-19 was conducting exercises in the North Atlantic close to South Greenland when it developed a major leak in its reactor coolant system, assuing the water pressure in the aft neator to drop to zero and the coolant pumps to fail. A separate accident had disabled the long-range radio system, so the crew could not the second se with its home base. The reactor temper ring officers and crew m ds in high-radiation areas to imp nent a new con nical suits instead of radiation suits, the repair team was certain to be ted, and the leak did contaminate the crew, parts of the ship, and c missiles carried on board. The entire crew receiven men in the repair crew died of radiation exp rs of the crew died within the next few



d to be a photo of K-19 Soviet U.S. Navy took this picture. Dreated by Nij Tontisirin and Boris Michey, Olin & Uris Libraries Maps Un

"Together Let Us Explore the Stars, Eradicate Disease, Encourage Commerce"

Instead, confrontation continues:

- Bays of Pigs invasion
- Alliance for Progress, a U.S. assistance program for Latin America created
- Berlin Wall erected
 - greatest symbol of division among people
 - built in a span of 24 hours
 - by 1975 45,000 separate sections of reinforced concrete, each 3.6m high and 1.5m wide
 - image to the right a .kmz file of the wall overlaid on a Google Earth image

