



# HAARP

## ADDITIONAL RESOURCES:

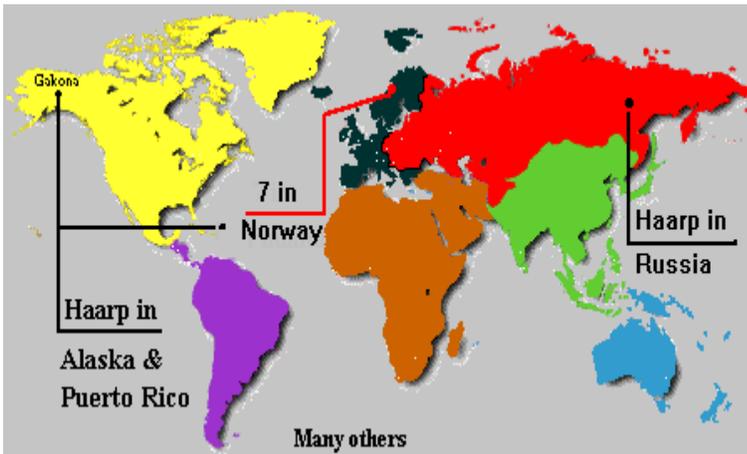
■ **PATRIOT PAGE**

■ **ARMAGEDDON**

■ **ORBIT**



**NICK BEGICH**



HAARP (High frequency Active Auroral Research Program) is to be a major Arctic facility for upper atmospheric and solar-terrestrial research. Scheduled for completion in 2002, HAARP is being built on a DoD-owned site near Gakona, Alaska. Principal instruments include a high power, high-frequency (HF) phased array radio transmitter (known as the Ionospheric Research Instrument, or IRI), used to stimulate small, well defined volumes of ionosphere, and an

ultrahigh frequency (UHF) incoherent scatter radar (ISR), used to measure electron densities, electron and ion temperatures, and Doppler velocities in the stimulated region and in the natural ionosphere. To further the scientific capabilities and usefulness of the IRI and ISR, HAARP is supporting the design and installation of the latest in modern geophysical research instruments, including an HF ionosonde, ELF and VLF receivers, magnetometers, riometers, a LIDAR (Light Detection And Ranging) and optical and infrared spectro-meters and cameras which will be used to observe the complex natural variations of Alaska's ionosphere as well as to detect artificial effects produced by the IRI.

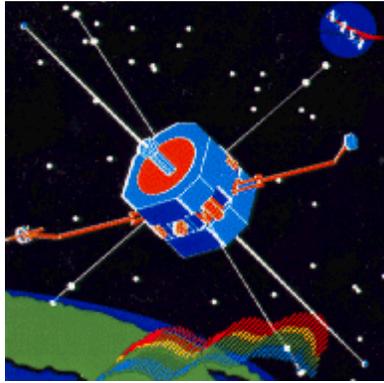
## Is HAARP Really Unique?

Ionospheric research facilities have been in continuous use since the early 50's to investigate fundamental physical principles which govern the earth's ionosphere, so that present and future transmission technologies may take into account the complexities of the ionosphere. At the present time the US operates two ionospheric research sites, one in Puerto Rico, near the Arecibo Observatory, the other (known as HIPAS) in Alaska near Fairbanks. Both of these employ active and passive radio instrumentation similar to that being built at HAARP. Interest in the ionosphere is not limited to the US: a five-country consortium runs the European Incoherent Scatter Radar site (EISCAT), a premier world-class ionospheric research facility located in northern Norway near Tromsø. Facilities also are located at Jicamarca, Peru; near Moscow, Nizhny Novgorod ("SURA") and Apatity, Russia; near Kharkov, Ukraine and in Dushanbe, Tadzhikistan. All of these installations have as their primary purpose the study of the ionosphere, and most employ the capability of stimulating to a varying degree small, localized regions of the ionosphere to discover in a controlled manner what nature produces at random. HAARP also will have such a capability, but what sets HAARP apart from existing facilities is the unusual combination of a research tool which provides electronic beam steering, wide frequency coverage and high effective radiated power collocated with a diverse suite of scientific observational instruments.

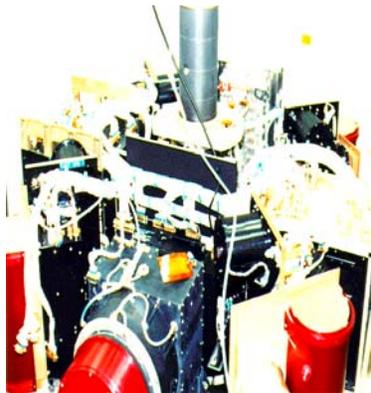
## Who is Building HAARP?

Technical expertise and procurement services as required for the management, administration and evaluation of the program are being provided cooperatively by the Air Force (Phillips Laboratory) and Navy (Office of Naval Research and Naval Research Laboratory). Since HAARP consists of many individual items of scientific equipment, both large and small, there is a considerable list of commercial, academic and government organizations which are contributing to the building of the facility by developing scientific diagnostic instrumentation and by providing guidance in the specification, design and development of the IRI. Advanced Power Technologies, Inc. (APTI), a subsidiary of E-Systems, Inc. which is wholly owned by Raytheon Corporation, was awarded the contract to design and build the IRI, based on a proposal submitted in response to an RFP issued by the Office of Naval Research and published in the Commerce Business Daily. Other organizations which have contributed to the program include the University of Alaska, University of Massachusetts, UCLA, MIT, Stanford University, Clemson University, University of Tulsa, University of Maryland, Cornell University, SRI International, and Geospace, Inc.

## Fast Auroral Snapshot Explorer



*The images in this area is of Fast Auroral Snapshot Explorer spacecraft and associated ground equipment.*



### What is the Value of Ionospheric Research?

The ionosphere begins approximately 35 miles above the earth's surface and extends out beyond 500 miles. In contrast to the dense atmosphere close to the earth which is composed almost entirely of neutral gas, the thin ionosphere contains both neutral gas and charged particles known as ions and electrons. This ionized medium can distort, reflect and absorb radio signals, and thus can affect numerous civilian and military communications, navigation, surveillance and remote sensing systems in many varied ways. For example, the performance of a satellite-to-ground communication link is affected by the ionosphere through which the signals pass. AM broadcast programs, which in the daytime can be heard only within a few tens of miles from the station, at night sometimes can be heard hundreds of miles away, due to the change from poor daytime to good nighttime reflection from the ionosphere. A long-range HF communication link which uses multiple hops or reflections from the ionosphere, often experiences amplitude fading caused by interference between signals which have traveled from the transmitter to the receiver by two (or more) different ionospheric paths.

Since the sun's radiation creates and maintains the ionosphere, sudden variations in this radiation such as those caused by solar flares can affect the performance of radio systems. Sometimes the changes are sufficient to induce large transient currents in electric power transmission grids, causing widespread power outages. Lightning is known to cause substantial heating and ionization density enhancement in the lower ionosphere, and there are indications that ground-based HF transmitters, including radar and strong radio stations, also modify the ionosphere and influence the performance of systems whose paths traverse the modified region. Perhaps the most famous example of the latter is the "Luxembourg" effect, first observed in 1933. In this case a weak Swiss radio station appeared to be modulated with signals from the powerful Luxembourg station, which was transmitting at a completely different frequency. Music from the Luxembourg station was picked up at the frequency of the Swiss station.

The proliferation of space-based civilian and military systems whose performance depends on transionospheric paths encourages not only good characterization and monitoring of the ionospheric state, but also an examination of what controlled local modification of the ionosphere, using ground HF transmitters, could do for and to these systems. Thus, while the HAARP facility is expected to provide significant advancements in understanding ionospheric science by stimulating and controlling plasma processes in a tiny localized region within the ionosphere, it also has the potential for significantly affecting the planning and economics of space-based systems.

### Why is the DoD Involved?

The Department of Defense (DoD) conducts Arctic research to ensure the development of the knowledge, understanding and capability to meet national defense needs in the Arctic. Interest in ionospheric research at HAARP stems both from the multiplicity of communication, surveillance and navigation systems that have radio paths which pass through the ionosphere, and from the unexplored potential of technological innovations which suggest applications such as detecting underground objects, communicating to great depths in the sea or earth, and generating infrared and optical emissions. Expanding our knowledge about the interactions of signals passing through or reflecting from the ionosphere can help to solve future problems in the development of DoD systems, and could as well enhance the utilization of commercial systems which rely on the expedient transfer of real-time communications.

### Why Gakona, Alaska?

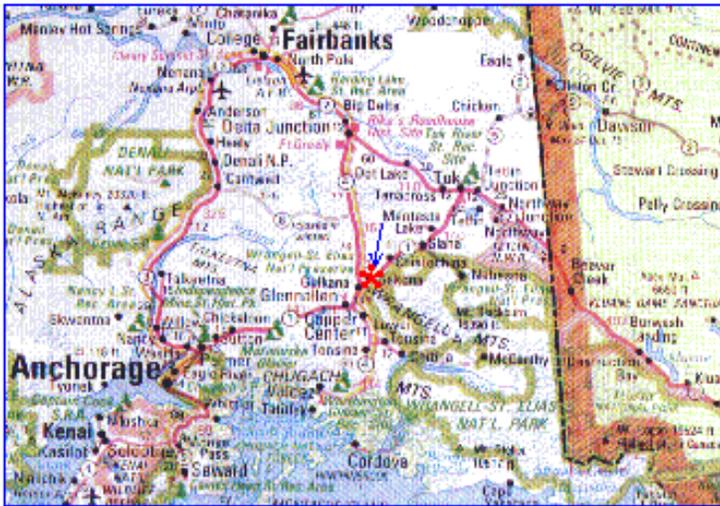
During HAARP's environmental impact study, Gakona was identified as one of two DoD-owned, Alaskan locations which satisfied the site selection criteria of being within the auroral zone, near a major highway for year-round access, away from densely settled areas, of sufficient size to allow for equipment siting and separation space, on relatively flat terrain, of realistic and reasonable construction and operation costs as well as minimal environmental impacts. On October 18, 1993 following the July 15, 1993 issuance of the Air Force's Environmental Impact Statement which evaluated potential environmental effects of constructing and operating the HAARP facility, a Record of Decision (ROD) signed by the Deputy Assistant Secretary of the Air Force for

Installations selected Gakona as the HAARP site.

Location of the HAARP Facility in Gakona, Alaska

The access road is located at Milepost 11.3 on the Tok highway. The geographic coordinates of the IRI array are approximately 62 deg 23.5'N, 145 deg 8.8'W.

What is the IRI and what does it transmit?



Basically, the IRI is what is known as a phased array transmitter. It is designed to transmit a narrow beam of high power radio signals in the 2.8 to 10 MHz frequency range. Its antenna is to be constructed on a 1000' x 1200' gravel pad (about 33 acres). There are to be 180 towers, 72' in height mounted on thermopiles spaced 80' apart in a 12 x 15 rectangular grid, each of which supports near its top, two pairs of crossed dipole antennas, one for the low band (2.8 to 7 MHz), the other for the high band (7 to 10 MHz). To prevent possible damage to the antenna towers or harm to large

animals, an exclusion fence has been constructed around the array. An elevated ground screen attached at the 15' level acts as a reflector for the antenna array while allowing vehicular access under-neath to the 30 environmentally controlled transmitter shelters spaced throughout the array. Each shelter contains 6 pairs of 10 kW transmitters, for a total of  $6 \times 30 \times 2 \times 10 \text{ kW} = 3600 \text{ kW}$  available for transmission. The transmitters can be switched to drive either the low or high band antennas. Electric prime power is to be obtained from six, 2500 kW generators, each driven by a 3600 hp diesel engine. From a control room within the Operations Center the transmissions from each dipole are adjusted in amplitude and phase so as to form a narrow beam directed upward toward the ionosphere. The beam is partially absorbed, at an altitude which depends on the HF frequency, in a small volume a few hundred meters thick, the remainder either reflecting back toward the earth or continuing through the ionosphere into space. The intensity of the HF beam in the ionosphere is of the order of a few milliwatt/m<sup>2</sup>, hundreds of times less than the variations in intensity of the Sun's natural ultraviolet (UV) energy which creates the ionosphere.

Are these transmissions harmful?

Because the IRI beam will be directed upward, rather than toward the horizon, radio field strengths at ground level, including directly under the antenna array, are calculated to be smaller

than Radio frequency Radiation (RFR) standards allow for human exposure. This is possible because the individual transmitters are spaced apart over 33 acres so that the concentration of radio fields never exceeds the RFR standards. Radio field strengths on the ground around the array were measured during the April 1995 tests of the Development Prototype, and show good agreement with the calculations. At the point of closest public access on the Tok Highway, the measured fields are ten-thousand times smaller than permitted by the RFR standards and one-thousand times smaller than typically found near AM broadcast station antennas.

What about aircraft?

(More propaganda)

The upward-directed IRI main beam radio fields may have sufficient strength to interfere with electronic equipment in aircraft flying nearby. Therefore, to ensure the safety of all flight operations in the vicinity of HAARP, an aircraft alert radar (AAR) will automatically shut off appropriate transmissions when aircraft are detected either within or approaching a defined safety zone around the facility. Flight tests conducted using a Piper Super Cub demonstrated the capability of the Raytheon radar to detect even very small targets. Ensuring correct operation of the AAR will be a prelude to starting high power transmissions.

(NOTE,

possible scenarios - food for thought)

*Remember the crash in Colombia South America? The aircraft veered off to the left (a problem reported by another pilot) and struck the mountain east of the aircraft's planned course. The crash occurred at night. Even if the pilot realized his aircraft was off course while on auto pilot, it takes at least 15 minutes to gain control of the aircraft and bring it back on course. So please think about it, How far will an aircraft travel in 15 minutes? How far off course was the aircraft when it crashed into the mountain? Would the pilot have had time to gain control of the aircraft to prevent the crash? (I don't think so!) (Was the HAARP installation in Puerto Rico turned on at the time of the crash?) What happened to the aircraft that took off from Dominican Republic? Isn't that near Puerto Rico? The day the ValuJet crashed Big Spring Texas was having a grapefruit size hail storm. Another commercial aircraft flying through Montana, experienced navigation problems, at the same time Montana was having a golf ball size hail storm. On the 28 of May 1996 a commercial aircraft flying from Amsterdam to Orlando Fla. experienced navigation problems and had to make an emergency landing in Boston.*

(Fact)

October 2, 1996 LIMA, Peru--A failed computer navigation system most likely allowed a pilot to become lost in dense early morning mist, causing a Peruvian jet to crash into the Pacific Ocean Wednesday, killing all 70 people aboard.

The Peruvian government blamed the crash on "**technical** failures," without elaborating. The flight crashed shortly after takeoff from Lima; it was bound for Santiago, Chile.

"It seems there was a blockage in the computer system," said Peruvian Transportation Minister Elsa Carrera de Escalante.

"I don't have any instruments," he said, according to Carrera, who heard a tape of the Pilots' conversation with the control tower in Lima. "What's happening? What altitude am I at? Why is my ground crash alarm on? Am I over land or sea?"

"You're over sea," the tower reported.

Fishermen at sea when the plane crashed said they saw a flash of light and heard the dull impact.

This is the **second** major plane crash this year in Peru. On February 29, a Faucett Airlines plane crashed in southern Peru, killing all 123 aboard. It was the worst air accident in Peru's history.

**Isn't it strange all the planes crashed just after take off, or while on approach to land?**

What is the potential for Radio and computer Frequency Interference (RFI)?

(More propaganda)

**Every radio transmitting facility has the potential to interfere with other radio spectrum users. To determine the likelihood that HAARP's transmissions inadvertently might interfere with Alaskan TV, AM/FM radio, ham radio, animal tracking receivers, cellular phones, satellite links, aircraft navigation and communications equipment, pipeline communications, or even with HAARP's own sensitive radio receiving equipment, a comprehensive RFI study was conducted.** Theory predicted that in several worst-case scenarios, interference may be encountered by some users sharing the RF spectrum. On the other hand, the real world experiences of similar ionospheric research instruments and radar diagnostics employed elsewhere in the world suggest that compatible operations are practical. Included in HAARP's frequency application to the Spectrum Planning Subcommittee of the National Telecommunications and Information Administration (NTIA) is the commitment to a mitigation program that includes acquisition of state-of-the-art transmitters with stringent requirements for minimizing out-of-band transmissions; proper orientation of the IRI array and adoption of operating procedures, including beam steering, to minimize array sidelobes; employing special techniques such as waveform shaping, filtering and antenna null placement; and working with affected spectrum users, if any, to reach mutually agreeable solutions. A local phone number (907) 822-5497, permits anyone believing they have interference from HAARP to contact the Gakona site operations center.

What really is the RFI Resolution Advisory Committee?

The Record of Decision stipulated than an RFI Resolution Advisory Committee "Committee")

would be formed with local representation, to help mitigate potential RFI issues. The local community appointed resident would serve as an ombuds-man to ensure community satisfaction with the RFI mitigation approaches undertaken by HAARP. The purpose of the Committee is to provide a forum for the thorough review of confirmed RFI reports. The first organizational Committee meeting took place on December 6, 1995 in Glennallen. Committee members were from the following organizations (one from each): Community-appointed resident, Aircraft Owners and Pilots Association (AOPA), ALAS-COM, Alyeska Pipeline Service Co., American Radio Relay League (ARRL), Coast Guard, Federal Aviation Administration (FAA), Fish & Wildlife (Federal), Fish & Game (State), HAARP Environmental Liaison Officer, HAARP operational staff (site supervisor or delegate), HAARP Program appointed chair person, National Park Service, Naval Research Laboratory (NRL), and the combined Alaska military command (ALCOM) frequency coordinator.

To ensure that all concerns, including aircraft safety as well as radio frequency interference issues, are addressed completely before the IRI operates at full power, a Development Prototype (DP) has been constructed and is being operated at the Gakona site. A 6 x 8 array of crossed dipole antennas was built as the NE corner of the 12 x 15 IRI antenna field, and a 3 x 6 subset of these are energized by 18 pairs of 10 kW transmitters, contained in three separate shelters, thus supplying up to a maximum of 360 kW. Prime power is obtained from three 300 kW diesel generators.

Calculations of expected HF fields in the vicinity of the DP antenna array show that field intensities everywhere, including within the DP beam, are below recommended international safety limits for fly-by-wire aircraft. Nonetheless, the DP will be energized only when the aircraft alert radar is operating, to insure that no high power transmissions occur when there is local flight traffic. Operation and test of the DP will verify the system design, identify any radio frequency interference problems resulting from spurious and/or harmonic emissions and permit mitigation measures to be tested and employed, if necessary.

### HAARP Diagnostics

HAARP is developing an extensive set of diagnostic instrumentation to support ionospheric research at auroral latitudes, to characterize the processes triggered in the upper atmosphere and ionosphere by high power radio waves and to assess the potential of ionospheric modification technology for DoD applications. While some of the diagnostic instruments would be collocated with the IRI at the research facility, others, due to geometrical considerations, must be located off-site at various distances from the IRI. One of the primary active on-site diagnostics is to be the incoherent scatter radar (ISR) which would transmit radiowave signals in the 430 - 450 MHz band. Another is the HF ionosonde, which transmits in the 1-30 MHz band and is used to provide scientists with information about the electron density profile in the ionosphere. The LIDAR can detect minute concentrations of atmospheric pollutants such as stratospheric ozone.

Passive on-site instruments include a magnetometer for the measurement of the earth's magnetic field and its variations, and a riometer (relative ionospheric opacity meter) to sense ionospheric absorption of the celestial background electromagnetic radiation. The radio spectrum from 100 kHz to 1 GHz is being recorded to determine frequency of usage and to monitor HAARP

transmissions to ensure adherence to FCC and NTIA requirements. The diagnostic information will be combined into an integrated data package which eventually will be available on the internet in near real time, allowing scientists to participate in the investigations directly from their laboratories. In addition to the instruments specifically developed by HAARP, a number of diagnostics potentially are available through other federal agencies and the University of Alaska's Geophysical Institute.

### Use of Local Resources

The Geophysical Institute of the University of Alaska Fairbanks (UAF) has played a major role in the development of diagnostics and coordination of Arctic programs with the US scientific community. UAF led a consortium of universities and industries which provided support in the design and development of the Gakona facility and associated diagnostic instruments.

Advanced Power Technologies, Inc. (APTI), the prime contractor for the IRI, utilized Eric Goozen for initial site survey work. APTI employed a Glennallen based company, Ahtna Construction, Inc., which subcontracted to Cruz, Survey Alaska and Double S Trucking for clearing and constructing the DP gravel pad. Ahtna also is providing nightly security coverage

Anchorage based engineering firms Duane Miller & Associates and USKH prepared the civil and pad design work and conducted the on-site testing and evaluation. Arctic Foundation of Anchorage designed and manufactured, and Kiewit Pacific Company installed, thermopiles in the pad, using Amtec, Inc. to survey the thermopile locations and Tester Drilling and EBA Engineering to provide drilling support. Acme Fence Company installed fencing, using the services of Mark Lappi to survey the fence lines and B&B Plumbing to steam thaw the ground for drilling. City Electric, Inc. erected the towers, antennas, and ground screen. Alaska Detroit Diesel delivered, wired and tested the three diesel generators which power the DP transmitters and Service Oil delivered and placed the 5000 gallon DOT-approved tanker. Copper Valley Telephone installed the telephone lines, and Copper Valley Electric supplies commercial housekeeping power. Newbery Alaska installed the electrical distribution lines and provided the pole for the aircraft alert radar antenna. Bishop & Sons Enterprises supplies water, while CBS Service provides trash removal and sewage disposal. Harley McMahon flew sorties to test the capabilities of the aircraft alert radar and provide the opportunity for aerial photography.

### Current/Future Operations at the HAARP Research Facility.

Completing the Development Prototype testing is the primary goal of the current operations at HAARP. Initial DP tests were conducted during 15 December 1994 to 12 April 1995, and follow-on tests are scheduled for 24 July through 11 August 1995. Future milestones include: initiating research with the DP itself in mid-September 1995, using it both to generate ELF for the first time and as a transmitter in a cooperative experiment with HIPAS; conducting another ELF campaign in March 1996; and filling the DP antenna array with an additional 30 transmitter-pairs by summer 1997. During the campaigns the researchers would depend on the local economy for subsistence and other necessities. Both on and off-site diagnostic instruments are providing data on the natural high latitude ionosphere and supporting research at the HIPAS facility near Chena Hot Springs. Currently these include a magnetometer, ELF/VLF receivers, an imaging

riometer, a 30 Mhz riometer and a spectrum monitor.

### Environmental Process

In accordance with the National Environmental Policy Act (NEPA), an environmental impact statement (EIS) evaluated the consequences of constructing and operating the HAARP research facility in Alaska. The EIS discusses impacts on such diverse topics as electromagnetic and radio frequency interference, vegetation, wetlands, wildlife, air quality, subsistence, cultural resources, atmosphere and others.

State and federal environmental regulatory agencies were consulted to identify issues, and additional input was solicited from the public during scoping meetings held in Anchorage and Glennallen, Alaska in August 1992. A draft of the EIS was prepared and distributed to the public and to specific organizations on March 12, 1993. Public hearings were held in Glennallen and Anderson, municipalities close to the sites under consideration. The final EIS was released to the public on July 15, 1993 and the Record of Decision selecting Gakona, Alaska as the site for the HAARP Ionospheric Research Facility was signed on October 18, 1993.

In addition to the NEPA process described above, all applicable state and federal regulations for construction and operation of the HAARP facility are being complied with.

This is an aerial view, looking east, of the HAARP Developmental Prototype Array located near Gakona, Alaska. The small pad in the lower left corner of the photograph is being used for the two Riometers currently operating at the site.

Each of the 48 antenna elements in the DP array consists of two crossed dipole antennas, oriented approximately North-South and East-West. There are separate crossed dipoles for the low frequency (2.8-7 MHz) and the high frequency (7 - 10 MHz) bands. Each of the crossed dipoles in the IRI will be driven by a dedicated transmitter, two of which are contained in a transmitter cabinet. Thus, a transmitter cabinet is dedicated to a complete crossed dipole pair. In the DP, only 18 of the 48 antenna elements are actually connected to transmitters, however, and these are shown in red in the figure presented above. All of the transmitters are housed in environmentally controlled shelters, each of which can accommodate six transmitter cabinets. The existing transmitter shelters are shown in yellow in the above figure. Primary power for each of the shelters is currently obtained from independent diesel generator sets located adjacent to the shelters. None of the power required by the transmitters is obtained from the commercial power grid.

### Additional Information

(keep an open mind)

An updated version of this fact sheet will be issued as often as program changes warrant to keep interested parties apprised of significant developments in regard to HAARP. Any individual seeking additional information about HAARP, or wishing to provide comments regarding HAARP, may contact:

Mr. John Heckscher or

Mr. Roy Heitman

PL/GPIA ESC Public Affairs

29 Randolph Road

Hanscom AFB MA 01731-3010 Phone: (617) 377-4466

Phone: (617) 377-5121 e-mail: [heckscher@plh.af.mil](mailto:heckscher@plh.af.mil)

or

Mr. Ralph Scott Phone: (907) 552-8151

[End of propaganda]

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ANGELS DON'T PLAY THIS HAARP

Alaskan *Nick Begich Jr.*, who recently got a doctorate in the study of alternative medicine from a school based in Sri Lanka, has written and published a new book in which he alleges that HAARP could lead to "global vandalism" and effect people's "mental func-tions."

Project HAARP:

The Pentagon's provoc-ative plan to superheat the earth's ionosphere The HAARP phased-array transmitter zaps the earth's ionosphere with high-frequency radio waves. In an Arctic compound 200 miles east of Anchorage, Alaska, the Pentagon has erected a powerful transmitter designed to beam more than a gigawatt of energy into the upper reaches of the atmosphere. Known as Project HAARP (High-frequency Active Auroral Research Program), *the \$30 million experiment involves the world's largest "ionos-pheric heater,"* a prototype device designed to zap the skies hundreds of miles above the earth with high-frequency radio waves.

Why irradiate the charged particles of the ionosphere (which when energized by natural processes make up the lovely and famous phenomenon known as the Northern Lights)? According to the U.S. Navy and Air Force, co-sponsors of the project, "to observe the complex natural variations of Alaska's ionosphere." That, says the Pentagon, and also to develop new forms of communications and surveillance technologies that will enable the military to send signals to nuclear submarines and to peer deep underground.

### 50 Greatest Conspiracies first reported on HAARP more than a year ago.

Since then, inquiring Internauts have blamed the peculiar project for everything from UFO activity to major power outages in the Western United States, to, most recently, the downing of TWA Flight 800. (The Pentagon maintains that the HAARP array has been inactive since late last year.) Some have dubbed it the "Pentagon's doomsday death ray." Though many of these theories are, well, creatively amplified, an assortment of more grounded critics--environmentalists, Native Americans and Alaskan citizens among them--argue that the military does indeed have Strangelovian plans for this unusual hardware, applications ranging from "Star Wars" missile defense schemes to weather modification plots and perhaps even mind control experiments.

The HAARP complex is situated within a 23-acre lot in a relatively isolated region near the town of Gakona. When the final phase of the project is completed in 1997, the military will have erected 180 towers, 72 feet in height, forming a "high-power, high frequency phased array radio transmitter" capable of beaming in the 2.5-10 megahertz frequency range, at more than 3 gigawatts of power (3 million watts).

### HAARP Hyperlinks

### Warm, Fuzzy HAARP

The U.S. Navy's sooth-ing, feel-good PR Web site devoted to HAARP reassures us that the project is entirely benign.

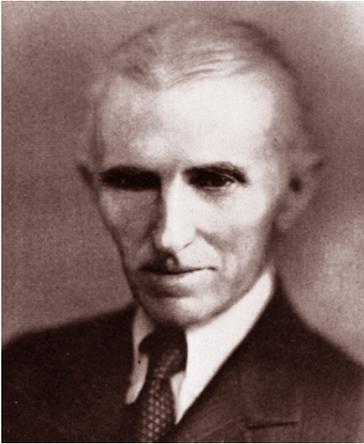
### Angels Don't Play This

### HAARP

Excerpts from the book that posits a connection between the work of suppressed scientist Nikola Tesla and Project HAARP.

*Overview of facts and speculation swirling around the Gakona, Alaska, project.*

The Eastlund-ARCO Patent outlines Eastlund's vision for a HAARP-like project drawing upon the inspiration of Nikola Tesla.



Nikola Tesla at age 77

Tesla, a brief biography of the enigmatic scientist.

### TESLA'S BRAIN

By Bill Crawford

One evening during the last summer of the 19th century, an eccentric Serbian inventor steps outside his electrical laboratory. Dressed in a Prince Albert coat and black derby, he looks up at the 200-foot tower

he's built in the shadow of Pike's Peak.

"Now! Close the switch!" he shouts to his assistant. Inside the lab, the assistant slams home the switch on a mammoth "magnifying transmitter." Current surges through the giant electrical coil; the earth vibrates. An eerie blue light fills the lab. Lightning bolts shoot into the Colorado sky. Thunder splits the evening air, turning the heads of ranchers 15 miles away. Townspeople panic as the 12-million-volt surge knocks out the Colorado Springs power station and sets it ablaze. Inventor Nikola Tesla smiles: His newborn electrical forces are nothing compared with the electrical impulses in his own mind.

Tesla was wired differently from most people. By age 12, he could recite logarithmic tables by

heart, but his thoughts were frequently interrupted by visions and brilliant flashes of light. To overcome his paralyzing mental storms, the boy trained his mind to create imaginary worlds. At 17, Tesla focused his mind on machines. He imagined a turbine that would transform the energy of Niagara Falls into electricity and revised his designs mentally, at lightning speed.

At the University of Prague, Tesla's obsession with electric-motor design grew. So did his eccentricity. Before he allowed himself to eat, he calculated the cubic contents of soup plates, cups and pieces of food. A fly landing on a table thudded in his ears. Disturbed by the sensation of the ground trembling beneath him, Tesla supported his bed on rubber cushions. "I am an exceptionally accurate instrument of reception, in other words, a seer," Tesla wrote. "But such a surtax of the brain is fraught with great danger to life."

Overtaxed, the young engineer's mind shut down completely. For therapy, Tesla took to walking through Prague's City Park, where at sunset, an "idea came like a flash of lightning, and in an instant, the truth was revealed." With a stick, he drew a diagram of a motor in the sand--one that would use alternating current to change electrical energy into mechanical energy.

Tesla built a model of his electrical motor but was unable to sell it to anyone, including Thomas Edison. The Wizard of Menlo Park had already invested heavily in direct current and had no use for a motor that was based on an entirely incompatible system. Finally, backed by J.P. Morgan, Tesla founded his own company and reached an agreement with George Westinghouse to bring his innovative electrification system to the world.

Twenty-five million visitors at the 1893 Columbian Exposition in Chicago stared in awe as 200,000 light bulbs illuminated the fairgrounds--each one powered by alternating current. Many stopped in at the Westinghouse display room to watch as Nikola Tesla, elegant in white tie and tails, demonstrated the dazzling effects of high-frequency equipment in front of neon signs of his own creation. Three years later, Tesla's electrical generating and transmission systems were installed at Niagara Falls. A high tension line carried electrical power 22 miles to Buffalo--a feat Edison's direct current system could never accomplish. Tesla's generating, transmission and power systems transformed electricity from an urban curiosity to the world's most popular source of energy.

But Tesla would not rest until he could transmit electrical energy without wires. In 1899, he built a laboratory in the mountains outside Colorado Springs and created an enormous resonating transformer--a Tesla Coil--to send high-voltage, low-frequency transmissions through the earth. "The entire earth will be converted into a huge brain," Tesla wrote, "capable of response in every one of its parts."

Man-made lightning bolts were the closest Tesla ever came to wireless energy transmission. After 1905, funding dried up. Though the inventor's mind never rested, it grew muddled. He spent the final decade of his life residing at the Hotel New Yorker, hanging out with boxers and talking with the pigeons that flocked around him in Manhattan's parks.

Yet neither Tesla's poverty nor his addled mind made him bitter. "For many years, my life was little short of continuous rapture," he stated not long before his death in 1943. "I have thrived on my thoughts."

According to the Navy and Air Force, HAARP "will be used to introduce a small, known amount of energy into a specific ionospheric layer" anywhere from several miles to several tens of miles in radius. Not surprisingly, Navy and Air Force PR (posted on the official HAARP World Wide Web

Internet site, an effort to combat the bad press the project has generated), down-plays both the environmental impacts of the project and purported offensive uses of the technology.

However, a series of patents owned by the defense contractor managing the HAARP project suggests that the Pentagon might indeed have more ambitious designs. In fact, one of those patents was classified by the Navy for several years during the 1980s. The key document in the bunch is U.S. Patent number 4,686,605, considered by HAARP critics to be the "smoking raygun," so to speak. Held by ARCO Power Technologies, Inc.

(APTI), the ARCO subsidiary contracted to build HAARP, this patent describes an ionospheric heater very similar to the HAARP heater invented by Bernard J. Eastlund, a Texas physicist. In the patent--sub-sequentially published on the Internet by foes of HAARP--Eastlund describes a fantastic offensive and defensive weapon that would do any megalomaniacal James Bond super villain proud.

According to the patent, Eastlund's invention would heat plumes of charged particles in the ionosphere, making it possible to, for starters, selectively "disrupt microwave transmissions of satellites" and "cause interference with or even total disruption of communications over a large portion of the earth." But like his hopped up ions, Eastlund was just warming up. Per the patent text, the physicist's "method and apparatus for altering a region in the earth's atmosphere" would also:

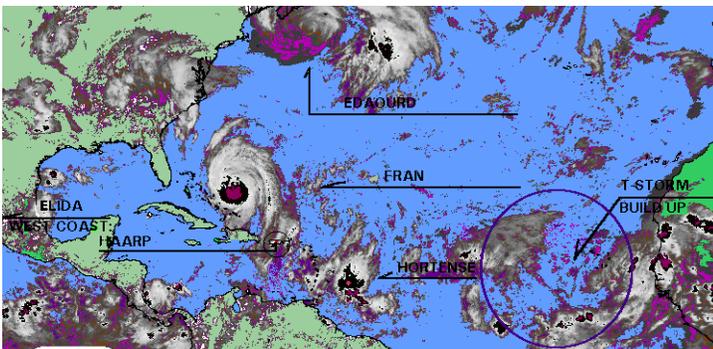
- "cause confusion of or interference with or even complete disruption of guidance systems employed by even the most sophisticated of air-planes and missiles";
- "not only...interfere with third-party communications, but [also] take advantage of one or more such beams to carry out a communications network at the

same time. Put another way, what is used to disrupt another's communications can be employed by one knowledgeable of this invention as a communications network at the same time";

- "pick up communication signals of others for intelligence purposes";
- facilitate "missile or aircraft destruction, deflection, or confusion" by lifting large regions of the atmosphere "to

an unexpectedly high altitude so that missiles encounter unexpected and unplanned drag forces with resultant destruction or deflection of same."

If Eastlund's brainchild sounds like a recipe for that onetime Cold War panacea, the Strategic Defense Initiative (AKA "Star Wars" ), it's probably no



coincidence. The APTI-Eastlund patent was filed during the final days of the Reagan administration, when plans for high-tech missile defense systems were still all the rage. But Eastlund's blue-sky vision went far beyond the usual Star Wars prescriptions of the day and suggested even more unusual uses for his patented ionospheric heater.

### "Weather modification,"

the patent states, "is possible by....altering upper atmospheric wind patterns or altering solar absorption patterns by con-structing one or more plumes of particles which will act as a lens or focusing device." As a result, and artificially heated could focus a "vast amount of sunlight on selected portions of the earth."

HAARP officials deny any link to Eastlund's patents or plans. But several key details suggest otherwise. For starters, APTI, holder of the Eastlund patents, continues to manage the HAARP project. During the summer of 1994, ARCO sold APTI to E-Systems, a defense contractor known for counter-surveillance projects. E-Systems, in turn, is currently owned by Raytheon, one of the world's largest defense contractors and maker of the SCUD-busting Patriot missile. All of which suggests that more than just simple atmospheric science is going on in the HAARP compound.

What's more, one of the APTI / Eastlund patents singles out Alaska as the ideal site for a high frequency ionospheric heater because "magnetic field lines... which extend to desirable altitudes for this invention, intersect the earth in Alaska." APTI also rates Alaska as an ideal location given its close proximity to an ample source of fuel to power the project: the vast reserves of natural gas in the North Slope region--reserves owned by APTI parent company ARCO. Eastlund also contradicts the official military line. He told National Public Radio that a secret military project to develop his work was launched during the late 1980s.

And in the May/June 1994 issue of Microwave News, Eastlund suggested that "The HAARP project obviously looks a lot like the first step" toward the designs outlined in his patents.

Eastlund's patent really trips into conspiratorial territory in its "References Cited" section. Two of the sources documented by Eastlund are New York Times articles from 1915 and 1940 profiling Nikola Tesla, a giant in the annals of Con-spiratorial History. Tesla, a brilliant inventor and contemp-orary of Edison, developed hundreds of patents during his lifetime, and is often credited with developing radio before Marconi, among a host of other firsts. Of course, mainstream science has never fully acknowledged Tesla's contri-butions, and his later pronoun-ments (he vowed that he had developed a technology that could split the earth asunder) have left him straddling that familiar historical territory where genius meets crackpot. Not surprisingly, fringe science and conspiracy theory have made Tesla something of a patron saint. Whenever, talk radio buzz or Internet discussion turns to alleged government experiments to cause earth-quakes or modify weather, references to government-suppressed "Tesla Technology" are sure to follow.

Of course, mainstream science has never fully acknowledged Tesla's contri-butions, and his later pro-nouncements (he vowed that he had developed a technology that could split the earth asunder) have left him straddling that familiar historical territory where genius meets crackpot. Not surprisingly, fringe science and conspiracy theory have made Tesla something of a patron saint. Whenever, talk radio buzz or Internet discussion turns to alleged government experiments to cause earth-quakes or modify weather, references to govern-ment-suppressed "Tesla Technology" are sure to follow.

Judging from the APTI patent, Tesla was a major inspiration for Eastlund ionos-pheric heater. The first New York Times article, dated September 22, 1940, reports that Tesla, then 84 years old, "stands ready to divulge to the United States Government the secret of his 'teleforce,' with which, he said, airplane motors would be melted at a distance of 250 miles, so that an invisible Chinese Wall of Defense would be built around the country." Quoting Tesla, the Times story continues:

"This new type of force, Mr. Tesla said, would operate through a beam one hundred-millionth of a square centimeter in diameter, and could be generated from a special plant that would cost no more than \$2,000,000 and would take only about three months to construct."

The second New York Times story, dated December 8, 1915, describes one of Tesla's more well known patents, a transmitter that would "project electrical energy in any amount to any distance and apply it for innumerable purposes, both in war and peace."

The similarity of Tesla's ideas to Eastlund's invention are remarkable, and by extension the overlap between Tesla and HAARP technology is downright intriguing. Apparently, APTI and the Pentagon are taking Eastlund's--and by extension, Tesla's--ideas seriously.

Eastlund seems to agree As he told one journalist-/conspiracy pathfinder: "HAARP is the perfect first step towards a plan like mine.

...The government will say it isn't so, but if it quacks like a duck and it looks like a duck, there's a good chance it is a duck."

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### Agent X Forecasts

**"Baked Alaska"**

### Broken Promises

Finally: A "Doomsday Death Ray" with Northern Exposure 3/19/95--When you think Sources of Arctic Anxiety, you naturally think hypothermia, leaky pipe-lines, Exxon Valdez. Well, residents of the Last Frontier--and maybe the rest of us--have something new to fret about. A six-year-old Pentagon project being conducted 200 miles east of Anchorage, Alaska, is getting a chilly reception from locals, and not without good reason. The U.S. Air Force and Navy's High Frequency Active Auroral Research Project (HAARP) is officially described as an effort to beam radio waves into the Aurora Borealis to turn the "Northern Lights" into a gigantic transmitter capable of bouncing signals to nuclear submarines. That, anyway, was the explanation given when the project began during the last act of the Cold War.

Now, however, locals are worried that the little-publicized experiment has taken on much more ambitious, Strangelovian proportions--including **StarWars** weapons applications, surveillance capabilities, and perhaps even weather modification.

According the flam-boyant conspiratologist known as "Agent X," HAARP's phased-array transmitters are intended to "heat" the ionosphere, the uppermost portion of the earth's atmosphere, which is composed mainly of charged particles: "HAARP will excite these particles by injecting more than a gigawatt (one billion watts) of electromagnetic radiation into the earth's atmosphere, in the form of high frequency radio waves," writes Agent X in an article that can be found bouncing around the Internet and in the current issue of The Nose magazine (#26). Per

Agent X, the project is set for a \$75 million expansion next year, which will pump up the volume to 1.7 gigawatts--creating the most powerful transmitter on the planet.

The Pentagon and Alaska's governor's office deny that HAARP has any super-secret weapons applications. But physicist Bernard Eastlund, who developed the technology at ARCO, has described his original plan as an opportunity to use the transmitter to shoot down missiles and alter the weather. Per Agent X, H-Bomb pater-and-Star Wars zealot Edward Teller caught wind of ARCO's research and from there the military took charge.

Under the Pentagon's stewardship, Eastlund tells Agent X, "HAARP is the perfect first step towards a plan like mine. Advances in phased-array transmitter technology and power generation can produce the field strength required. The government will say it isn't so, but if it quacks like a duck and it looks like a duck, there's a good chance it is a duck."

With a transmitter as powerful as HAARP, the military (theoretically at least) would be able to use the ionosphere as a "resonant mirror" to direct an electronic beam back to specific points on the earth. Thus, the energy could be used as a "sort of CAT scan for the planet," with the ability to "see" underground, submits Agent X. More powerful signals might be used to supercharge the electrons in the ionosphere, thereby exploding any missile traveling through that layer of the atmosphere. Even more insidious uses might include a more potent version of weapons used against Iraq during the Gulf War: pulsed electro-magnetic radiation bounced off the ionosphere and aimed at power grids, delicate micro-electronics, missile guidance systems, and perhaps even human "brain chemistry." Agent X also speculates that an overheated upper atmosphere might affect weather patterns, giving the military the deity-like ability to smite its enemies with floods or droughts.

The Air Force insists that it is only "looking at" the ionosphere, not zapping it like dimestore demigods. Still, as an unnamed Air Force factotum put it to Agent X, "The real beauty of HAARP is that nothing you can see on the outside is sensitive. The secret is the beam-steering agility and pulsing of the transmissions. . . . When covert operations occur, the science team, the operating funds and the mission will all be black." Soon as our brain chemistry goes supercritical, we'll let you know. Assuming we know about it, that is.

### Inslaw Update

On 3/19/95--The latest issue of Wired magazine contains a quick update on the Inslaw software theft conspiracy. The background on the Reagan-era scandal that wouldn't die is covered at length in 50 Greatest Conspiracies of All Time, but to recap ever so briefly: As part of a Reagan administration intelligence operation, Justice De-partment officials allegedly ripped off a software program called PROMIS, which was developed by a tiny private company, Inslaw, Inc. PROMIS was a database management system that offered powerful applications for law enforcement. According to various government officials and Inslaw President Bill Hamilton, after the Justice Department stole the software, it modified the pro-gram into a kind of electronic Trojan horse and sold PROMIS to foreign intelligence agencies and banks. That "neat idea" was supposed to give the CIA secret backdoor access into the top secret files of foreign governments and financial institutions. Though a couple of federal judges subsequently found evidence of

wrongdoing on the part of Justice, in March 1993 a retired federal judge tapped by the Bush administration to reassess the evidence found no signs of wrong-doing.

OK, that almost brings us up to date. As Wired reports, last October House Resolution 4862 looked likely to pass. That bill would have overturned the March 1993 finding and bound the Federal Claims court to re-investigate the Inslaw case. Though Bill Clinton backed [HR 4862](#), a week before the vote Attorney General Janet Reno "deluged both Congress and the press with a report. . . in which she stated that there was no scandal, and no need for an independent counsel or further investigation," according to Wired. Wouldn't you know it? The House resolution subsequently was squashed by a partisan committee vote, and Democrats who supported the bill were left fuming at Reno.

Any chance of the Republican-led congress re-open-ing the matter? Well, that fact that Reno, a Clinton official, doused the matter would seem to bode well for a resuscitation of the Inslaw case. However, the fact that the key suspects in the scandal are veteran Reagan-Bush officials will probably ensure that Inslaw-gate remains a political hot potato for now.

### The Military's Pandora's Box

By Dr. Nick Begich and

Jeane Manning.

Earthpulse Press

(907) 249-9111

This article was prepared to provide a summary of the contents of a book written in 1995 which describes an entirely new class of weapons. The weapons and their effects are described in the following pages. The United States Navy and Air Force have joined with the University of Alaska, Fairbanks, to build a prototype for a ground based ["StarWars"](#) weapon system located in the remote bush country of Alaska.

The individuals who are demanding answers about HAARP are scattered around the planet. As well as bush dwellers in Alaska, they include: a physician in Finland; a scientist in Holland; an antinuclear pro-tester in Australia; independent physicists in the United States; a grandmother in Canada, and countless others. Unlike the protests of the 1960s the objections to HAARP have been registered using the tools of the 1990s. From the Internet, fax machines, syndicated talk radio and a number of alternative print mediums the word is getting out and **PEOPLE ARE WAKING UP TO THIS NEW [IN-TRUSION](#) BY AN OVER ZEALOUS UNITED STATES GOVERNMENT.**

The research team put together to gather the materials which eventually found their way into the book never held formal meeting, never formed a formal organization. Each person acted like a node on a planetary info-spirit-net with one goal held by all--to keep this controversial new science in the public eye.

The result of the team's effort was a book which describes the science and the political ramifications of this technology.

That book, *Angels Don't Play this HAARP: Advances in Tesla Technology*, has 230 pages. This article will only give the highlights. Despite the amount of research (350 footnoted sources), at its heart it is a story about ordinary people who took on an extraordinary challenge in bringing their research forward.

### HAARP **Boils** the Upper

#### Atmosphere

HAARP will zap the upper atmosphere with a focused and steerable electromagnetic beam. It is an advanced model of an "ionospheric heater." (The ionosphere is the electrically-charged sphere surrounding Earth's upper atmosphere. It ranges between 40 to 60 miles above the surface of the Earth.)

Put simply, the apparatus for HAARP is a reversal of a radio telescope; antenna send out signals instead of receiving. HAARP is the test run for a super-powerful radiowave beaming technology that lifts areas of the ionosphere by focusing a beam and heating those areas. Electromagnetic waves then bounce back onto earth and penetrate everything -- living and dead.

HAARP publicity gives the impression that the High-frequency Active Auroral Research Program is mainly an academic project with the goal of changing the ionosphere to improve communications for our own good.

However, other U.S. military documents put it more clearly -- HAARP aims to learn how to "exploit the ionosphere for Department of Defense purposes." Communicating with submarines is only one of those purposes.

Press releases and other information from the military on HAARP continually downplay what it could do. Publicity documents insist that the HAARP project is no different than other ionospheric heaters operating safely throughout the world in places such as Arecibo, Puerto Rico, Tromso, Norway, and the former Soviet Union. However, a 1990 government document indicates that the radio frequency (RF) power zap will drive the ionosphere to unnatural activities. "at the highest HF powers available in the West, the instabilities commonly studied are approaching their maximum RF energy dissipative capability, beyond which the plasma processes will 'runaway' until the next limiting factor is reached." If the military, in cooperation with the University of Alaska Fairbanks, can show that this new ground-based "**StarWars**" technology is sound, they both win. The military has a relatively-inexpensive defense shield and the University can brag about the most dramatic geophysical manipulation since atmospheric explosions of nuclear bombs. After successful testing, they would have the military megaprojects of the future and huge markets for Alaska's North Slope natural gas.

Looking at the other patents which built on the work of a Texas' physicist named Bernard Eastlund, it becomes clearer how the military intends to use the HAARP transmitter. It also makes governmental denials less believable. The military knows how it intends to use this technology, and has made it clear in their documents.

The military has deliberately misled the public, through sophisticated word games, deceit and outright misinformation.

### The military says the HAARP system could:

- Give the military a tool to replace the electromagnetic pulse effect of atmospheric thermonuclear devices (still considered a viable option by the military through at least 1986)
- Replace the huge Ex-tremely Low Frequency (ELF) submarine communication system operating in Michigan and Wisconsin with a new and more compact technology.
- Be used to replace the over-the-horizon radar system that was once planned for the current location of HAARP, with a more flexible and accurate system.
- Provide a way to wipe out communications over an extremely large area, while keeping the military's own communications systems work-ing.
- Provide a wide area earth-penetrating tomography which, if combined with the computing abilities of EMASS and Cray computers, would make it possible to verify many parts of nuclear nonproliferation and peace agreements.
- Be a tool for geo-physical probing to find oil, gas and mineral deposits over a large area.
- Be used to detect in-coming low-level planes and cruise missiles, making other technologies obsolete.

The above abilities seem like a good idea to all who believe in sound national defense, and to those concerned about cost-cutting. However, the possible uses which the HAARP records do not explain, and which can only be found in Air Force, Army, Navy and other federal agency records, are alarming.

Moreover, effects from the reckless use of these power levels in our natural shield -- the ionosphere--could be cataclysmic according to some scientists. Two Alaskans put it bluntly. A founder of the NO HAARP movement, Clare Zickuhr, says "The military is going to give the ionosphere a big kick and see what happens." The military failed to tell the public that they do not know what exactly will happen, but a Penn State science article brags about that uncertainty. Macho science? The HAARP project uses the largest energy levels yet played with by what Begich and Manning call "the big boys with

their new toys." HAARP is an experiment in the sky, and experiments are done to find out something not already known.

Independent scientists told Begich and Manning that a HAARP-type "[skybuster](#)" with its unforeseen effects could be an act of global vandalism.

### HAARP History



ARCO, the owner of the patents? They could make enormous profits by beam-ing electrical power from a powerhouse in the gas fields to the consumer without wires.

For a time, HAARP re-searchers could not prove that this was one of the intended uses for HAARP. In April, 1995, however, Begich found other patents, connected with a "key personnel" list for APTI. Some of these new APTI patents were indeed a wireless system for sending electrical power.

Eastlund's patent said the technology can confuse or completely disrupt airplanes' and missiles' sophisticated guidance systems. Further, this ability to spray large areas of Earth with electromagnetic waves of vary-ing frequencies, and to control changes in those waves, makes it possible to knock out commun-ications on land or sea as well as in the air.

The patent said:

"Thus, this invention provides the ability to put unprecedented amounts of power in the Earth's atmosphere at strategic locations and to maintain the power injection level particularly if random pulsing is employed, in a manner far more precise and better controlled than heretofore accomplished by the prior art, particularly by detonation of nuclear devices of various yields at various altitudes... "

"...it is possible not only to interfere with third party communications but to take advantage of one or more such beams to carry out a commun-ications network even though the rest of the world's communi-cations are disrupted. Put another way, what is used to disrupt another's communi-cations can be employed by one knowledgeable of this invention as a communication network at the same time."

"... large regions of the atmosphere could be lifted to an unexpectedly high altitude so that missiles encounter unex-pected and unplanned drag forces with resultant des-truction."

"Weather modification is possible by, for example, altering upper atmosphere wind patterns by constructing one or more plumes of atmospheric particles which will act as a lens or focusing device. ... molecular modifications of the atmosphere

can take place so that positive environmental effects can be achieved. Besides actually changing the molecular com-position of an atmospheric region, a particular molecule or molecules can be chosen for increased presence.

For example, ozone, nitrogen, etc., concentrations in the atmosphere could be artific-ially increased."

Begich found eleven other APTI Patents. They told how to make "Nuclear-sized Explosions without Radiation," Power-beaming systems, over-the horizon radar, detection systems for missiles carrying nuclear warheads, electro-magnetic pulses previously produced by thermonuclear weapons and other Star-Wars tricks. This cluster of patents underlay the HAARP

weapon system.

Related research by Begich and Manning uncovered bizarre schemes. For example, Air Force documents revealed that a system had been developed for manipulating and disturbing human mental processes through pulsed radio-frequency radiation (the stuff of HAARP) over large geographical areas.

The most telling material about this technology came from writings of Zbigniew Brzezinski (former National Security Advisory to U.S.

(President Carter

and

J.F. MacDonald)

"science advisors to U.S."

President Johnson and a professor of Geophysics at UCLA), as they wrote about use of power-beaming transmitters for geophysical and environmental warfare. The documents showed how these effects might be caused, and the negative effects on human health and thinking.

The **mental**-disruption possibilities for HAARP are

the most disturbing.

More than 40 pages of the book, with dozens of footnotes, chronicle the work of Harvard professors, military planners and scientists as they plan and test this use of the electromagnetic technology. For example, one of the papers describing this use was from the International Red Cross in Geneva. It even gave the frequency ranges where these effects could occur -- the same ranges which HAARP is capable of broadcasting.

The following statement was made more than twenty-five years ago in a book by Brzezinski which he wrote while a professor at Columbia University:

"Political strategists are tempted to exploit research on the brain and human behavior. Geophysicist Gordon J.F. Mac-Donald, a specialist in problems of warfare, says accurately-timed, artificially excited electronic strokes could lead to a pattern of oscillations that produce relatively high power levels over certain regions of the earth ... in this way one could develop a system that would seriously impair the brain performance of very large populations in selected regions over an extended period"

" ... no matter how deeply disturbing the thought of using the environment to manipulate behavior for national advantages, to some, the technology permitting such use will very probably develop within the next few decades."

In 1966, MacDonald was a member of the President's Science Advisory Committee and later a member of the President's Council on Environmental Quality. He published papers on the use of environmental control technologies for military purposes. The most profound comment he made as a geophysicist was, "the key to geophysical warfare is the identification of environmental instabilities to which the addition of a small amount of energy would release vastly greater amounts of energy."

While yesterday's geo-physicists predicted today's advances, are HAARP program managers delivering on the vision?

The geophysicists recognized that adding energy to the environmental soup could have large effects. However, human-kind has already added substantial amounts of electro-magnetic energy into our environment without understanding what might constitute critical mass. The book by

#### Begich and Manning raises **questions:**

- Have these additions been without effect, or is there a cumulative amount beyond which irreparable damage can be done?
- Is HAARP another step in a journey from which we cannot turn back?
- Are we about to embark on another energy experiment which unleashes another set of demons from Pandora's box?

As early as 1970, Zbigniew Brzezinski predicted a "more controlled and directed society" would gradually appear, linked to technology. This society would be dominated by an elite group which impresses voters by allegedly superior scientific know-how.

Angels Don't Play his HAARP further quotes Brzezinski: "Unhindered by the restraints of traditional liberal values, this elite would not hesitate to achieve its political ends by using the latest modern techniques for influencing public behavior and keeping society under close surveillance and control. Technical and scientific momentum would then feed on the situation it exploits," Brzezinski predicted. His forecasts proved accurate. Today, a number of new tools for the "elite" are emerging, and the temptation to use them increases steadily. The policies to permit the tools to be used are already in place. How could the United States be changed, bit by bit, into the predicted highly-controlled technosociety? Among the "steppingstones" Brzezinski expected were persisting social crises and use of the mass media to gain the public's confidence.

In another document prepared by the government, the U.S. Air Force claims: "The potential applications of artificial electromagnetic fields are wide ranging and can be used in many military or quasi-military situations... Some of these potential uses include dealing with terrorist groups, crowd control, controlling breaches of security at military installations, and anti-personnel techniques in tactical warfare. In all of these cases the EM (electromagnetic) systems would be

used to produce mild to severe physiological disruption or perceptual distortion or disorientation. In addition, the ability of individuals to function

could be degraded to such a point that they would be combat ineffective. Another advantage of electromagnetic systems is that they can provide coverage over large areas with a single system. They are silent and countermeasures to them may be difficult to develop... One last area where electromagnetic radiation may prove of some value is in enhancing abilities of individuals for anomalous phenomena."

Do these comments point to uses already somewhat developed? The author of the government report refers to an earlier Air Force document about the uses of radio frequency radiation in combat situations. (Here Begich and Manning note that HAARP is the most versatile and the largest radio-frequency-radiation transmitter in the world.)

The United States Congressional record deals with the use of HAARP for penetrating the earth with signals bounced off of the ionosphere. These signals are used to look inside the planet to a depth of many kilometers in order to locate underground munitions, minerals and tunnels.

The U.S. Senate set aside \$15 million dollars in 1996 to develop this ability alone-- earth-penetrating-tomography.

The problem is that the frequency needed for earth-penetrating radiation is within the frequency range most cited for disruption of human mental functions. It may also have profound effects on migration patterns of fish and wild animals which rely on an undisturbed energy field to find their routes.

As if electromagnetic pulses in the sky and mental disruption were not enough, T. Eastlund bragged that the super-powerful ionospheric heater *could control weather*.

Begich and Manning brought to light government documents indicating that the military has weather-control technology. When HAARP is eventually built to its full power level, it could create weather effects over entire hemispheres. If one government experiments with the world's weather patterns, what is done in one place will impact everyone else on the planet. Angels Don't Play This HAARP explains a principle behind some of Nikola Tesla's inventions -- resonance -- which effect planetary systems.

### Bubble of Electric Particles

Angels Don't Play This HAARP includes interviews with independent scientists such as Elizabeth Rauscher. She has a Ph.D., a long and impressive career in high-energy physics, and has been published in prestigious science journals and books. Rauscher commented on HAARP. "You're pumping tremendous energy into an extremely delicate molecular structure that comprises these multilayers we call the ionosphere."

"The ionosphere is prone to catalytic reactions," she explained, "if a small part is changed, a major change in the ionosphere can happen." In describing the ionosphere as a delicately

balanced system, Dr. Rauscher shared her mental picture of it -- a soap-bubble-like sphere surrounding Earth's atmosphere, with movements swirling over the surface of the bubble. If a big enough hole is punched through it, she predicts, it could pop.

### Slicing the Ionosphere

Physicist Daniel Winter, Ph.D., of Waynesville, North Carolina, says, "



HAARP high-frequency emissions can couple with longwave (extremely-low-frequency, or ELF) pulses the Earth grid uses to distribute information as vibrations to synchronize dances of life in the biosphere." Dan terms this geomagnetic action 'Earth's information bloodstream,' and says it is likely that coupling of HAARP HF (high-frequency) with natural ELF can cause unplanned, unsuspected side effects.

David Yarrow of Albany, New York, is a re-researcher with a background in electronics. He described possible

interactions of HAARP radiation with the ionosphere and Earth's magnetic grid: "HAARP will not burn holes in the ionosphere. That is a dangerous understatement of what HAARP's giant gigawatt beam will do. Earth is spinning relative to thin electric shells of the multilayer membrane of ionospheres that absorb and shield Earth's surface from intense solar radiation, including charged particle storms in solar winds erupting from the sun. Earth's axial spin means that HAARP-- in a burst lasting more than a few minutes--will slice through the ionosphere like a microwave knife. This produces not a hole but a long tear--an incision."

### Crudely Plucking the Strings

Second concept: As Earth rotates, HAARP will slice across the geomagnetic flux, a donut-shaped spool of magnetic strings--like longitude meridians on maps. HAARP may not 'cut' these strings in Gaia's magnetic mantle, but will pulse each thread with harsh, out-of-harmony high frequencies.

These noisy impulses will vibrate geomagnetic flux lines, sending vibrations all through the geomagnetic web. " "The image comes to mind of a spider on its web. An insect lands, and the

web's vibrations alert the spider to possible prey. HAARP will be a man-made microwave finger poking at the web, sending out con-fusing signals, if not tearing holes in the threads. "

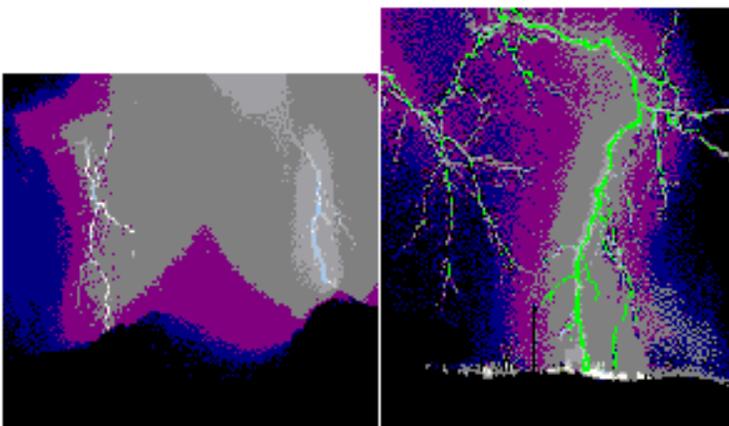
"Effects of this inter-ference with symphonies of Gaia's geomagnetic harp are unknown, and I suspect barely thought of. Even if thought of, the intent (of HAARP) is to learn to exploit any effects, not to play in tune to global symphonies. "

Among other research-ers quoted is Paul Schaefer of Kansas City. His degree is in electrical engineering and he spent four years building nuclear weapons. "But most of the theories that we have been taught by scientists to believe in seem to be falling apart," he says. He talks about imbalances already caused by the industrial and atomic age, especially by radiation of large numbers of tiny, high-velocity particles "like very small spinning tops" into our environment. The unnatural level of motion of highly-energetic particles in the atmos-phere and in radiation belts surrounding Earth is the villain in the weather disruptions, according to this model, which describes an Earth discharging its buildup of heat, relieving stress and regaining a balanced condition through earthquakes and volcanic action.

### Feverish Earth

"One might compare the abnormal energetic state of the Earth and its atmosphere to a car battery which has become overcharged with the normal flow of energy jammed up, resulting in hot spots, electrical arcing, physical cracks and general turbulence as the pent-up energy tries to find some place to go." In a second analogy, Schaefer says **"Unless we desire the death of our planet, we must end the production of unstable particles** which are generating the earth's fever.

A first priority to prevent this disaster would be to shut down all nuclear power plants and end the testing of atomic weapons, electronic warfare and 'Star Wars'." Meanwhile, the military builds its biggest ionospheric heater yet, to deliberately create more instabilities in a huge plasma layer--the ionosphere--and to rev up the energy level of charged particles.



### Electronic Rain From The Sky

They have published papers about electron precip- itation from the magnetosphere (the outer belts of charged particles which stream toward Earth's magnetic poles) caused by man-made very low frequency electromagnetic waves. "These precipitated particles can produce secondary ionization, emit X-rays, and cause significant perturbation in the lower ionosphere."

Two Stanford Univer-sity radio scientists offer evidence of what technology can do to affect the sky by making waves on earth; they showed that very low frequency radio waves can vibrate the

magnetosphere and cause high-energy particles to cascade into Earth's atmosphere. By turning the signal on or off, they could stop the flow of energetic particles.

Avalanches of energy dislodged by such radio waves could hit us hard. Their work suggests that technicians could control global weather by sending relatively small 'signals' into the Van Allen belts (radiation belts around Earth). Thus Tesla's resonance effects can control enormous energies by tiny triggering signals.

The Begich/ Manning book asks whether that know-ledge will be used by war-oriented or biosphere-oriented scientists.

The military has had about twenty years to work on weather warfare methods, which it euphemistically calls weather modification. For example, rain making technology was taken for a few test rides in Vietnam. The U.S. Department of Defense sampled lightning and hurricane manipulation studies in Project

Skyfire and Project Storm fury.

And they looked at some complicated technologies that would give big effects. Angels Don't Play This HARP cites an expert who says the military studied both lasers

and chemicals which they figured could damage the ozone layer over an enemy. Looking at ways to cause earthquakes, as well as to detect them, was part of the project named Prime Argues, decades ago. The money for that came from the Defense Advanced Research Projects Agency (DRAPE, now under the acronym ARPA.) In 1994 the *Air Force* revealed its Spacecast 2020 master plan which includes **weather control**.

Scientists here have experimented with weather control since the 1940's, but Spacecast 2020 noted that "using environmental modification techniques to destroy, damage or injure another state are pro-hibited." Having said that, the Air Force claimed that advances in technology "compels a reexamination of this sensitive and potentially risky topic."

#### 40 Years of Zapping the Sky?

As far back as 1958, the

chief White House advisor on

weather modification, Captain Howard T. Orville, said the U.S. defense department was studying "ways to manipulate the charges of the earth and sky and so affect the weather" by using an electronic beam to ionize or de-ionize the atmosphere over a given area.

In 1966, Professor Gordon J. F. MacDonald was associate director of the Institute of Geophysics and Planetary Physics at the University of California, Los Angeles, was a member of the

President's Science Advisory Committee, and later a member of the resident's Council on Environ-mental Quality.

He published papers on the use of environmental-control technologies for military pur-poses. MacDonald made a revealing comment: "The key to geophysical warfare is the identification of environmental instabilities to which the addition of a small amount of energy would release vastly greater amounts of energy. " World-recognized scientist Mac-Donald had a number of ideas for using the environment as a weapon system and he contributed to what was, at the time, the dream of a futurist. When he wrote his chapter, "How To Wreck The Environ-ment," for the book *Unless Peace Comes*, he was not kidding around. In it he describes the use of weather manipulation, climate modification, polar ice cap melting or destabilization, ozone depletion techniques, earthquake engineering, ocean wave control and brain wave manipulation using the planet's energy fields.

He also said that these types of weapons would be developed and, when used, would be virtually ***UN-DETECTABLE BY THEIR VICTIMS***. Is HAARP that weapon? The military's intention to do environmental engineering is well documented, U.S. Congress' subcommittee hear-ings on Oceans and Inter-national Environment looked into military weather and climate modification conducted in the early 1970's. "What emerged was an awesome picture of far-ranging research and experimentation by the Department of Defense into ways environmental tampering could be used as a weapon," said another author cited in *Angles Don't Play This HAARP*.

The revealed secrets surprised legislators. Would an inquiry into the state of the art of electromagnetic manipulation surprise lawmakers today? They may find out that technologies developed out of the HAARP experiments in Alaska could deliver on Gordon MacDonald's vision because leading-edge scientists are describing global weather as not only air pressure and thermal systems, but also as an electrical system.

### Small Input - Big Effect

HAARP zaps the ionos-

phere where it is relatively unstable. A point to remember is that the ionosphere is an active electrical shield protecting the planet from the constant bombardment of high-energy particles from space. This conducting plasma, along with Earth's magnetic field, traps the electrical plasma of space and holds it back from going directly to the earth's surface, says Charles Yost of Dynamic Systems, Leicester, North Carolina. "If the ionosphere is greatly disturbed, the atmos-phere below is subsequently disturbed."

Another scientist inter-viewed said there is a super-powerful electrical connection between the ionosphere and the part of the atmosphere where our weather comes on-stage, the lower atmosphere.

One man-made elec-trical effect--power line har-monic resonance--causes fallout of charged particles from the Van Allen (radiation) belts, and the falling ions cause ice crystals (which precipitate rain clouds). What about HAARP? Energy blasted upward from an ionospheric heater is not much compared to the total in the ionosphere, but HAARP docu-ments admit that thousand fold-greater amounts of energy can be released in the ionosphere than injected. As with

MacDonald's "key to geophysical warfare," "non-linear" effects (described in the literature about the ionospheric heater) mean small input and large output.

Astrophysicist Adam Trombly told Manning that an acupuncture model is one way to look at the possible effect of multi-gigawatt pulsing of the ionosphere. If HAARP hits certain points, those parts of the ionosphere could react in surprising ways. Smaller ionospheric heaters such as the one at Arecibo are underneath relatively placid regions of the ionosphere, compared to the dynamic movements nearer Earth's magnetic poles. That adds another uncertainty to HAARP--the unpredictable and lively upper atmosphere near the North Pole.

HAARP experimenters do not impress commonsense Alaskans such as Barbara Zickuhr, who says "They're like boys playing with a sharp stick, finding a sleeping bear and poking it in the butt to see what's going to happen."

### Could They Short-Circuit Earth?

Earth as a spherical electrical system is a fairly well-accepted model. However, those experimenters who want to make unnatural power connections between parts of this system might not be thinking of possible consequences. Electrical motors and generators can be caused to wobble when their circuits are affected. Could human activities cause a significant change in a planet's electrical circuit or electrical field? A paper in the respected journal *Science* deals with manmade ionization from radioactive material, but perhaps it could also be studied with HAARP-type skybusters in mind:

"For example, while changes in the earth's electric field resulting from a solar flare modulating conductivity may have only a barely detectable effect on meteorology, the situation may be different in regard to electric field changes caused by manmade ionization..." Meteorology, of course, is the study of the atmosphere and weather. Ionization is what happens when a higher level of power is zapped into atoms and knocks electrons off the atoms. The resulting charged particles are the stuff of HAARP. "One look at the weather should tell us that we are on the wrong path," says Paul Schaefer, commenting on HAARP-type technologies.

**Angels Don't Play This HAARP:** Advances in Tesla Technology is about the military's plan to manipulate that which belongs to the world--the ionosphere. The arrogance of the United States government in this is not without precedent.

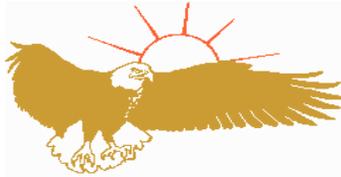
Atmospheric nuclear tests had similar goals. More recently, China and France put their people's money to deceptive use in underground nuclear tests. It was recently reported that the US government spent \$3 trillion dollars on its nuclear program since its beginning in the 1940's.

What new break through in life science could have been made with all the money spent on death?

Begich, Manning, Roderick and others believe that democracies (republics) need to be founded on openness, rather than the secrecy which surrounds so much military science. Knowledge used in

developing revolutionary weapons could be used for healing and helping mankind. Because they are used in new weapons, discoveries are classified and suppressed. When they do appear in the work of other independent scientists, the new ideas are often frustrated or ridiculed, while military re-search laboratories continue to build their new machines for the killing fields.

However, the book by Manning and Begich gives hope that the military industrial-academic-bureaucratic Goliath can be affected by the combined power of determined individuals and the alternative press. Be-coming informed is the first step to empowerment.



(NOTE, possible scenarios - more food for thought)

It is believed this project is responsible for the crazy weather conditions we have had all over the world, hurricanes, floods, drought, tornadoes, and lightening that has been starting the fires in California, Oregon, Montana, Utah, Wyoming, Colorado, New Mexico, and Arizona.

This can only happen after HAARP has created a drought, making it possible for the dry lightening created by HAARP, igniting the dry tender to fuel the fires.

If you will contact the Militia of Montana: At (406)-847-2246 they have U.N. weather control documents that explains how it works along with a copy of the Patent.

Haarp was a black project until the people in Alaska put up a fight about it. Then they came out with what they call a fact sheet, this is what they want the people to believe.

I have heard they have been seeing **tropical-fish** showing up in the cold arctic waters.

**Sea turtles** are dying off the east coast, Because they can't find their way to shore.

You don't believe **whales** are beaching in mass suicide do you ? or do you think some thing caused them to lose their way ?

How do **sea creatures** navigate through the ocean waters? *don't they navigate by using the earth's **energy fields**?*

You will find a

[Note]

on Page # 4 please read it.