

Nation

# Robots may displace workers

WASHINGTON — Robots and computers with micro-electronic brains will increase productivity in American factories but also threaten to replace hundreds of thousands of workers, a Worldwatch Institute report said Saturday.

The report said the industry that has shrunk room-sized computers to postage stamp dimensions is expanding so rapidly it soon will have a major impact on American jobs.

"It is clear that there will be serious upheavals in industries where jobs are automated and workers face redundancy," the report concluded.

It was written by Colin Norman, a researcher for Worldwatch, an independent organization that analyzes world problems.

"It is easy to point to the advantages of raising productivity with new technologies, but if those advantages are won at the expense of displaced workers, the fruits of technological change will be bitter indeed," he said.

Norman said government and industry should consider ideas on how to share jobs in an economy based on highly productive machines that can do the work of humans by using micro-electronic processors.

"Proposals to reduce the number of work hours through shorter work weeks, longer vacations, sabbaticals, and similar steps should now be firmly on the political agenda," he said.

The Worldwatch study found that while some jobs will be created in industries manufacturing and programming computers and other elec-

tronic goods, jobs are likely to disappear in others able to take advantage of computer-based automation. This includes both factories and offices.

Norman said, for example, that most new car plants have robot-welding and paint-spraying systems. New machines are being developed to do everything from inserting light bulbs into car dashboards to assembling home appliances.

The study found that automation of textile manufacturing is proceeding rapidly in the United States. As a result, Norman said as many as 300,000 relatively low-paid jobs in textile plants could disappear by 1990.

Jobs also will be lost in firms that

switch from the manufacture of mechanical goods to products based on electronics because electronic devices have far fewer parts to produce and assemble. The Swiss watch industry, for example, lost 46,000 jobs in the mid 1970s because of electronic timepieces.

Norman said that in this decade, the electronics industry will rival the automobile, steel and chemical industries in sales. There is intense competition among industrial nations for a share of this rapidly growing market.

He concluded that more jobs will be lost in those countries that do not pursue the technology vigorously than in those that do.

United Press International  
FAIRFAX, Va. — Deputy CIA Director Frank Carlucci says the spy agency is preoccupied trying to protect the identity of its agents and sources because the United States is becoming known as a nation that can't keep secrets.

"Our country is becoming known throughout the world as a country that can't keep secrets," Carlucci told the annual convention of the Association of Former Intelligence Officers. "We have picked up enough information to know this is a problem" among U.S. allies.

The association, which now numbers 2,500 former members of the CIA, Defense Intelligence Agency, the National Security Agency, the FBI and members of the intelligence branches of the armed services, was formed in 1975 at the height of investigations and journalistic exposes of past misdeeds.

Carlucci said his chief concern now is the "protection of our sources and methods."

The United States began developing a reputation as a nation that could not keep secrets in the 1970s, because of information released under the Freedom of Information Act and through books by former intelligence agents, he said.

"There are no friendly books" about U.S. intelligence, he said. "The best-intentioned book raises a lot of eyebrows" among U.S. allies.

Carlucci said CIA Director Stansfield Turner urged him to tell the intelligence veterans "not to talk to journalists."

"We see no reason why a group of misguided Americans should be allowed to reveal identities of our people overseas and disrupt their activities," Carlucci said.

Among resolutions approved Friday night by the association, which has had a significant impact on congressional committees involved with intelligence matters, were those urging Congress to:

- Enact legislation which would make it a criminal offense for any person to identify U.S. intelligence operatives.
- Investigate the "deplorable misuse of public funds" through the Public Broadcasting System because of a "highly inaccurate and biased three-part program on American intelligence. The resolution asked for checks which will preclude future use of public monies to present misleading material designed to undermine the national security."
- "Consider and pass legislation making it a crime for anyone to make unauthorized disclosures of intelligence sources and methods."

# CIA director urges restraint in reporting spy activities

# Planet is cooling off

LOS ANGELES — The earth is heading into one of its periodic cooling periods, called "little ice ages." The result in years to come could be famine on a world scale, a UCLA scientist says.

Dr. Leona Marshall Libby, a professor of environmental science and engineering, recently reported her views before the American Chemical Society.

It doesn't have to cool off very much. A drop of two degrees on an average can cause a "little ice age." She said her conclusions were based on exhaustive studies of oxygen and hydrogen isotopes within molecules in tree rings and earth core samples.

It has long been known that tree rings reflect either abundant rain and mild temperatures during a given year or little rain and cool temperatures.

"We measure the isotope ratios of oxygen and hydrogen ring by ring," she said, "and that comes directly from the rain that is distilled from the ocean."

The amount of isotopes gives the temperatures of the oceans and the climates of continents.

She said that she and her co-researcher, Dr. Louis J. Pandolfi of Global Geochemistry Corp., found the same signs in tree rings as in sea-bottom earth core samples.

"It's getting colder. It's been cooling off for 2,000 years. During the next 10 years the earth will continue to cool and then it will warm up a bit, but not as much as currently."

"And by 1995, it will really cool off for about 30 years. Beyond that time, we don't trust the predictions until we get more data."

Dr. Libby said the economies of past periods reflect climatic changes. There were two times of great disaster, first the little ice age of 1650 to 1700, and then from 1750 to 1820.

"I'm really worried about what will happen in the world," Libby said.

"Clearly there will be more wars, rioting caused by hunger and failed crops."

# How to make television run longer

NEW YORK — Tend to take your TV set for granted, assuming it will run forever?

At least until you have to call a repairman — and pay his bill.

George Meyer, product manager for US JVC Corp., maker of color television sets, has eight simple tips on how to treat your TV set kindly to help it run longer and safer.

Meyer's tips:

- Always turn off the television when leaving the room for more than a few minutes. Never leave a set on when leaving the house.
- Don't operate the television if water or liquids have been spilled on it. Pull the plug and have a service technician inspect it before further use.
- Protect your TV set during a lightning storm or when it will be unattended for a long time by unplugging it from the wall outlet and disconnecting the antenna.
- Turn off the receiver before cleaning the face of the picture tube. Use a slightly damp cloth. Do not use an aerosol directly on the picture tube since it may overspray and cause electrical shock.
- Advise children not to drop or push objects into television cabinet openings. Some internal parts carry hazardous voltages.
- Do not rest anything on the power cord or place the television where the cord can be stepped on.
- Never place a television set on or near a radiator.
- Don't try to fix a TV yourself. Take the set to a properly trained service technician.

# Myth:

You can't have your cake and eat it too.

# Fact:

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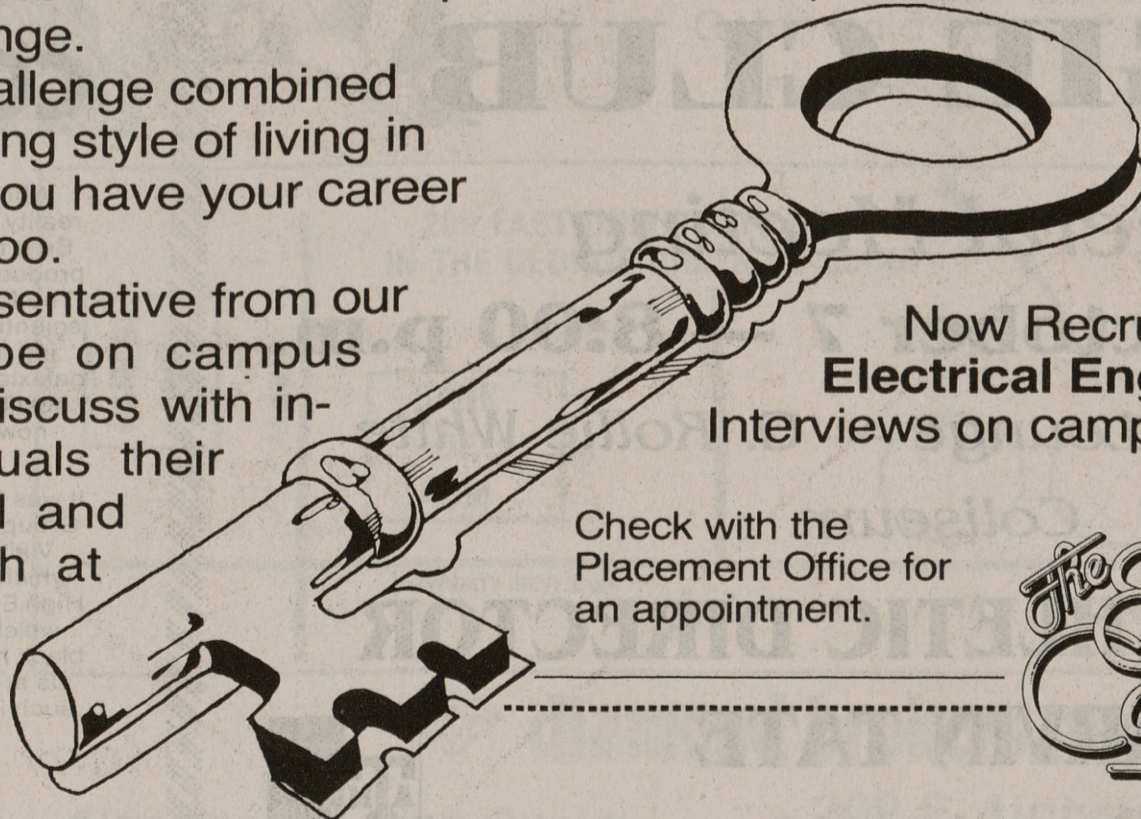
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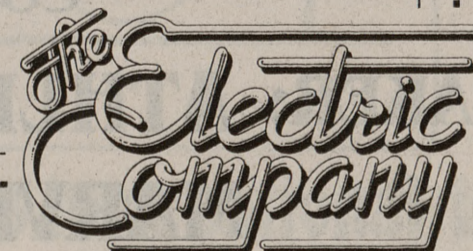
If our recruitment schedule is full or if you are in any other discipline from liberal arts to business administration, please send your resume and transcript to:

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