#### The writers



William Kincade is executive director of the Arms Control Association,

Inseason in Washington that is associated with the Carnegie Foundation. He is also the director of the Arms Control Program for the Carnegie Endowment for International Peace. He graduated from Princeton University and served for seven years in the Navy, reaching the rank of leutenant commander. He also worked for The Associated Press in New York. Kincade received his master's degree and doctorate from American University. Before joining the Arms Control Association, he was staff director of the Joint Congressional Committee on Defense Production. During 1977 and 1978. Kincade was a senior consultant to the Federated at Emergency Preparadness and Response Study of President Carter's reorganization project.



### The artist



Frank Peters' art experience began in advertising, but for the past 20 years he has been principally involved in graphic

design for news dis-play. He is an award-winning artist who has pio-neered the use of color in producing news graphics on the short deadline schedule of a daily newspaper. His primary responsibility is illustrating the front pa-ges of the A and B Sections of The St. Petersburg Times.

## The editor



John Costa is a copy editor on the wire desk of The St. Petersburg Times. He studed political science on the undergraduate and graduate and graduate and graduate and steep the steep the

#### **GE-operated** plant makes Pinellas a prime target

■ Paul Bennett is an arms control specialist for the Union of Concerned Scientists, a group located in Cambridge, Mass. and Washington, D.C. ■

Mass. and Francisco Street Str

A nuclear blast in Pinellas County would destroy ECI,
A nuclear blast in Pinellas County would destroy ECI,
A nuclear blast in Pinellas County would destroy ECI,
Honeywell, Sperry Microwave and the other Pentagon
contractors that make the county a major center of military
contractors that make the county a major center of military
blast contracts of the property of the contract of the contract of the property o

THE FINISHED components are shipped in special rucks to a factory near Amarillo. Texas where final asembly of nuclear weapons takes place. Solid radioactive wastes — including contaminated metal parts and used smokestack filters — are taken to a burial site in South

smokestack filters — are such as the control of the Carolina.

The plant's post-stateck plan shows that operations could resume following a nuclear attack if Department of Energy headquarters gave such an order. The danger that are not one of the control of the

# Doomsday from 1-A

These manufacturing facilities were critical both to the production of highly sophisticated weapons and the maintenance of a complex, highly specialized economy.

ANOTHER major target was the U.S. Readin mmand at MacDill Air Force Base, the clearing ho d nerve center for all overseas troop deployments

ANOTHER maps carget was the U.S. Readiness Command at Melbil Air Force Base, the clearing house and nerve center for all overseas troop deployments in times of emergency.

A map prepared by the Pentagon's evid sefense unit the Defense Civil Preparedness Agency (DCPA) — had showed the Tampas-R-Petersburg region as at high isk from both blast damage and radioactive failout in a hypothetical thermounders attack aimed at defense installations and industry. The DCPA map treproduced on I Ais showed that only two other places in the tri-state area of Georgia, Alabams and Ffordiac could expect to be as hard hit. These were Huntville in northern Alabams, and Fordiac could expect to be as hard hit. These were Huntville in northern Alabams, and the Georgia coast, a home-port area for missilic-carrying subs.

#### Ready for recovery

strikes.

A week before, as the possibility of war grew, selected officials from all government agencies were moved to the Pederal Relocation Arr. The art is a series of bunkers holowed out of the Appalachian Mountains in sites from North Carolina to Pennsylvania during the 1950s and '60s to house officials in an emergency such as the nation was feed.

facing.

From their bunkers in the arc and from Federal Regional Centers, officials would assess the attack damage,
attempt to marshal federal, state and local resources to
make the state of the state of the state of the state of the state of
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the day of attack (so as not to promote panic and confusion prematurely or unnecessarily) taped advice on how
to improvise shelter and minimizer radiation exposures was
beamed over and over from every broadcast outlet in the
nation.

MANY DID not hear the broadcasts, and for others

It was or no use.

At the same time, Congress adjourned, planning to reconvene after the attack in some safe haven, if possible.

Congressional leaders and others in the line of succession to the presidency, as well as the Supreme Court, were hastly moved to the Federal Relocation have the night before the attack, though some refused to go because their wives could not accompany them.

Fearing a national panic if he left Washington during the crisis, the President had stayed in the White House until the firing order was given. Then, within minutes, he was helicoptered to his own mountain bunker. Even most preparedness officials did not know its location.

preparedness officials did not know the location. Once installed in this command post — different from the one sheltering the vice president — he signed an executive order creating the Office of Defense Mobilization, a sort of civilian general staff or superbureaucracy that would coordinate all relief and recovery efforts after the attack. In subsequent orders — prepared years before updated periodically, and signed only that day — the President imposed martial law, suspended certain civil years to be a superbureaucracy that the president imposed martial law, suspended certain civil years of the president imposed martial law, suspended certain civil years of the president of the president property of the presid

## 'The Wechek family story'

The Wechek family — father, mother 8-year-old son and 10-year-old daughter — escaped immediate death from the blasts. MacDill was far from their Clearwater home.

home.

As soon as he felt the worst of the attack on MacDill was over, Wechek rushed to the elementary school to pick up his children. Back home, he and the family barricaded themselves with food and water in the large walk- in the home's master beforom and prepared to wait — not knowing for what. Through heavy static, the root knowing for what. Through heavy static, the root will be sider group in the large walk- in their home, with its freezer full of food.

The Wecheks surrived the accord binative Committee of the control of the work of the control of the work of the work

The Wecheks survived the second, Pinellas County ast — but their house did not.

IT WAS demolished by the shock wave and subsequent wind storms. We chek was able to pull his family from the heap of collapsed studs, wallboard and mattresses that had been their closet shelter. Mrs. We chek had been been considered to the collapse study, which was not been considered to the collapse study was unconscious but alive. Father and daughter suffered shock and cuts in the blast in escaping from the house.

The Wecheks had been protected from the initial heat radiation by the walls of the house, but some of the debris was smoldering, and in the wreckage of nearby houses fires were already taking hold.

The immediate problem was to avoid fire and smoke inhalation and then to find shelter from the fallout that would soon begin to contaminate Clearwater.

# 'The Bragg family story'

In e Bragg family story'
Mr and Mrs. Rugs had lived in the same wood frame
house south of downtown St. Petersburg — 12 miles from
MacDill Air Fore Base — for years.
When the radio broadcast the taped warning, they
gathered Mrs. Braggs heart medication and their prize
passessions — pictures of children, a piece of heirfoom
garnet jewelry, and the cat "Mouses" — and walked to a
nearby bank, where Mr. Braggs had earlier noticed the
yellow and black fallout saletier sign. As a bank it offered
a far degree of biast protection, although the Braggs, like
offered little salety against blast or heat effects from nearby nuclear detonations.
Thes varivelet the blast at MacDill standing crowded

by nuclear detonations.
They survives the blast at MacDill standing crowded in the hank's walths with soores of others, meatly bank employees and other elderly citizens like themselves. Forty-five minutes after the blast, the walt's fluorescent lights and air filtration system went off.

The Braggs waited in the bank for three hours. They could see smoke fill the streets outside and occasionally a jabbing flame crossed their line of vision or shouting was beard.

MOST IN the bank thought help was on the way. When no help came, people began to talk of leaving the bank to find help, a safer spot, or find out what was going

The Braggs left the bank in the direction of their

home.
It was burned to the ground. Fires amoked all around and moving along the debris-cluttered streets was diffi-cult. A few policemen and citizens had organized parties to help pull victims from damaged structures. They lay meaning or silent in the streets. Strens could be heard in the distance. and moving along the debris-cluttered streets was difficult. A few policement and citizens had organized parties
to the park of the parties. Sirene could be heard in
the distance.

Knowing nowhere else to go, the Brages trudged back
to the bank There were fewer people there but it was still

crowded in the dark, hot, nearly airless vaults. Both felt sick from lack of food, water and adequate air. A young man with a civil defense armband came into the bank and took the names of those there. After a time, it became svi-dent that he had been unable to first aline, it became svi-dent that he had been unable to first alice and had nothing to offer but general advice on first aid and had nothing to offer but general advice on first aid and hel like. Still, the Braggs and their companions fured bet-ter than most when the second and third warheads fall that aftermoon.

#### In the President's bunker

The President and his top advisers left Washington before the attack, although it turned out that the Soviet Union spared the capitals on as to have a government with which to negotiate afterwards. The United States similarly spared Moscow. The President and his staff had retreated to a hardened bunker deep under a grantle mountries.

A national security adviser gave the Pr mates of attack damage.

mates of stack damage.

"Mr. President, we still do not have a complete or accurate count of the dead or injured or of the economic damage. We may never have. Prewar estimates put possible losses at 50-million to 100-million people. But we have a fairly good estimate of the size of the attack so that we can make projections as to fatalities, injuries and damage to industry," the activeer said.

# THE PRESIDENT asked why accurate cases were not available.

ures were not available.

"The reason we will never have a totally accurate tabulation or body count is that the higher number of deaths in many urban areas has caused a severe health hazard potential, especially in southern New England and Southern Caditornia, where damage was extended to the country of the country of

"AS TO THE injured, we are so overburdened and resources are so depleted, we have to concentrate on car-ing only for those who will clearly benefit from attention. Those who are slightly injured or are probably beyond help have had to be turned easy, We are getting our morphine stockpile distributed, by airlift where possible, to help the latter care.

"In the northern areas, the very cold temperatures and lack of shelter or fuel or power have contributed to many deaths from exposure.

many deaths from exposure.

"Deaths from lack of food will increase as the destruction of food stocks in the targeted cities and the lack of transportation have created severe shortinges in urban areas. Discontainisated water is also running scarce, we understand, although in time this problem can be more easily resolved than the lack of foodstuffs. Death from psychological shock and related causes, including suici-des, appear to be running very high. This was not anticipated in our nuclear disaster planning," the officer concluded.

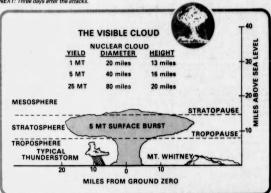
FALLOUT CLOUD MODELS FOR A 5-MT SURFACE BURST

### Fallout cloud models

Illout cloud models

Several patterns for the mushroom cloud associated with a nucleer bleat have been developed through tests at Enivertok and Bikini Atollas in the Pacific. The patterns are important prediction of fallout under differing factors such as wind conditions and size of weapons. A key problem in such predictions is the size and location of the radioactive cloud. The generally accepted pattern is the Miller model, bottom, but others that have occurred are: the Rand Models which the fallout cloud is a disk with no stem; the Weapons System Evaluation Group (WSEG), which is also a cloud disc without a stem, but is smaller in diameter and thicker than the Rand Model, and the Technical Operations model, which appears as an inverted cone.

NEXT: Three days after the attacks.



Source: Defense Civil Preparedness Agency St. Petersburg Times — FF

### A deadly mushroom

The mushroom cloud associated with a nuclear blast is, simply, a cloud of radioactive dirt. The amount of radioactive fallout is directly related to the size and height of the cloud and how it is dispersed by atmospheric conditions. The size and height of the cloud are determined by atmospheric conditions and the size of the blast. The heat of the blast makes the particles of the cloud buoyant. Although they lose heat as they rise, the particles remain relatively buoyant because the air gets cooler at higher altitudes. Both the mushroom cap and its stem contain radiation and must be taken into account when calculating effects. The diameter of the mushroom stem is abo one-fifth that of the cap.

# Doomsday story was over year in making

By JOHN COSTA St. Petersburg Times Staff Writer

The idea for a story that looked at life after a nuclear exchange is the product of conversation that took place over a year age.

St. Petersburg Times wire editor Mike Moscardini and I wondered if the United States had plans to cope with the devastation from a nuclear attack. From the first, it sounded like a great story idea. But there was a nagging fear that there would be little substantive information to base the story on.

Was that ever a misplaced fear?

is the contract of the contrac

would make such a prediction. Besides, Kinca alty is civil defense, not international relations It should also be noted that the most co statistics were used in calculating effects from

It is about also be noted that the most conservative statistics were used in calculating effects from such an Child Chil

stayed with the larger, currently operational one.

MANY READERS will note that some of the charts are based on 5-magaton warnhead. These were used only where a comparable chart based on a 1-megaton warnhead was not available. The computing casualties. A shinlar approach was taken in computing casualties. A shinlar approach was the comparable to the co

The Defense Civil Preparedness Agency estimates that with no civil defense system at all, 80-million Americans would survive a nuclear state. With the system we have now, 110-million Americans would survive. If all high risk areas, such as Tampa-S. Peterburg, cast of a propose overcustion plans for civilians, as many as 180-million Americans could survive. We assumed some progress in civil defense efforts—an assumption many would disagree with—in projecting about 80-million dead Americans.

Finally, you may be wondering where the Braggs and

cans.

Finally, you may be wondering where the Braggs and Wecheks came from. They were families in Pat Frank's Alas, Babylon, the 1959 novel, set in Florida, about the day after the bomb dropped.