WOMEN IN THE NEWS STATION (----) PRESENTS "WOMEN IN THE NEWS," A SPECIAL PROGRAM DEDICATED TO WOMEN WHO MAKE NEWS IN THE WORLD OF INDUSTRY. IN SPORTS, SOCIETY, THE ARTS AND IN THE HOME. PREPARED TODAY BY VIAIAN SANDE OF THE NEW YORK BUREAU OF UNITED PRESS RADIO. AND NOW...

GIRL ATOM-SPLITTER

LESS THAN A DECADE AGO, MIRIAM LEVIN'S MOTHER WOULDN'T LET HER FIX AN ELECTRIC IRON ... AFRAID SHE MIGHT CROSS THE WIRES AND GET A SHOCK.

NOW MISS LEVIN WORKS WITH EIGHT-MILLION ELECTRON VOLTS AT HER
FINGERTIPS...MORE THAN ENOUGH TO KILL A MAN...ENOUGH TO DISINTEGRATE
AN ATOM. MISS LEVIN IS THE ONLY WOMAN IN THE NATION WHO OPERATES
A CYCLOTRON. SHE RUNS COLUMBIA UNIVERSITY'S PUPIN CYCLOTRON, THE FIRST
TO SPLIT AN ATOM.
NINE YEARS AGO, THE COMELY MISS LEVIN---SHE'S BLONDE, BLUE-EYED AND
RETICENT---WAS GRADUATED FROM HUNTER COLLEGE WIT, A DEGREE IN MUSIC.
THE WAR WAS ON, AND MIRIAM LEVIN SAYS, "I WANTED TO DO SOMETHING
IMPORTANT FOR THE WAR EFFORT." AFTER A SHORT STINT AS A CIVILIAN
RESEARCH ASSISTANT WITH THE U.S. ARMY SIGNAL CORPS, AT FORT MONMOUTH,
NEW JERSEY, SHE APPLIED FOR A JOB AT COLUMBIA UNIVERSITY.
SAYS MIRMAUM "I KEPT HEARING WHISPERINGS ABOUT SECRET RESEARCH BEING
CONDUCTED UNDER THE CAMPUS."
THAT WAS FIVE YEARS AFTER DR. JOHN DUNNING, PIONEER ATOMIC PHYSICIST
AND NOW DEAN OF THE SCHOOL OF ENGINEERING, MADE HISTORY BY SPLITTING
THE URANIUM ATOM IN THE PUPIN CYCLOTRON, THUS COMPLETING THE FIRST NUCLE NOW MISS LEVIN WORKS WITH EIGHT-MILLION ELECTRON VOLTS AT HER

PHE URANIUM ATOM IN THATTE

THE URANIUM ATOM IN THE PUPIN CYCLOTRON, THUS COMPLETING THE FIRST NUCLEAR FISSION EXPERIMENT IN THE UNITED STATES.

"THE LAB WAS SHORT OF HELP," SAYS MIRIAM. "MOST OF THE BOYS WERE IN THE SERVICES. I GOT A JOB."

WITHIN A MATTER OF MONTHS, THE GIRL WHOSE FAMILY HAD CAREFULLY GROOMED HER FOR A MUSICAL CAREER, LEFT HER BABY GRAND PIANO FOR A CAREER AT THE ELECTRONIC KEYBOARD OF THE CYCLOTRON. SHE SAYS SHE FOUND SHE HAD A KNACK FOR HANDLING MACHINERY, AND IT GAVE HER A WONDERFUL FEELING OF POWER.

NOW SHE BOSSES THE ENTIRE CYCLOTRON.

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MORE WOMEN IN NEWS (UPR5) KXX CYCLOTRON:
THE PHYSICS LABS ARE PLASTERED WITH DANGER SIGN; WHICH GROW STRONGER
THE PHYSICS LABS ARE PLASTERED WITH DANGER SIGN; WHICH GROW STRONGER
SYOU NEAR THE CYCLOTRON ITSELF. THE BOARD MIRIA M OPERATES IN THE
KNOBS AND STUTCHES, TO MAKE AN AIRPLANE PILOT DIZZY. MOUNTAINS OF
KNOBS AND STUTCHES, TO MAKE AN AIRPLANE PILOT DIZZY. MOUNTAINS OF
MACHINERY WHICH SEND POWER TO THE CYCLOTRON SHOW BEHIND A GLASS WALL.
THE GENERATING ROOM——ACROSS THE PASSAGE FROM THE CONTROL ROOM——CAN
THE GENERATING POOM——ACROSS THE PASSAGE FROM THE CONTROL ROOM——CAN
THE GENERATING POOM——ACROSS THE PASSAGE FROM THE CONTROL ROOM——CAN
MATER TO HOLD IN RADIOACTIVITY. AND FARTHER DOWN THE
MIRIAM WEARS A WHITE LAB COAT AT WORK, AND A FILM BADGE——WHICH
MIRIAM WEARS A WHITE LAB COAT AT WORK, AND A FILM BADGE——WHICH
MEASURES THE AMOUNT OF RADIOACTIVITY SHE'S BEEN EXPOSED TO. TOO MUCH
EXPOSURE RATES A VACATION. SHE DOESN'T WEAR BOOBBY PINS IN RER HAIR——
THE MAGNETIC FORCE OF THE MACHINERY PULLS THEM OUT.
THE YOUNG ATOM SPLITTER'S JOB RANGES FROM SETTING UP GOVERNMENT
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THE YOUNG ATOM SPLITTER'S JOB RANGES FROM SETTING AND COMPOUNDING
UNIVERSITY AND OTHER SCIENTIFIC AGENCIES, COLLECTING AND COMPOUNDING
UNIVERSITY AND OTHER SCIENTIFIC AGENCIES, COLLECTING AND COMPOUNDING
DATA, AND DOING HER OWN REPAIR JOBS. MIRIAM CHANGES FILMMENTS, FIXES
DATA, AND SEES THAT THE MACHINE IS RUNNING PROPERLY AT ALL TIMES. SHE
MIGHT EASTLY LOSE HER LIFE IF SHE CROSSED THE WRONG WIRES. AND SHE
SOMETIMES LOSES SLEEP WHEN THE CYCLOTRON RUNS ALL NIGHT...WHICH IT
FREQUENTLY DOES. SHE'S ON CALL, LIKE A DOCTOR, IF ANYTHING SHOULD GO
WRONG.

WRONG.
MIRIAM, WHO HAS TAKEN SOME COURSES IN NUCLEAR PHYSICS AND MATH SINCE
SHE GOT IPTERESTED IN THE CYCLOTRON, HAS MADE A PERSONAL CONTRIBUTION
TO ATOMIC SCIENCE, THOUGH SHE'S NODEST ABOUT IT. SHE DESIGNED A
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THAN THE SHE HAN THREE TIMES.
INTERSITY BY MORE THAN THREE TIMES.
ASKED HOW HER PARENTS FEEL ABOUT HER WORKING IN SUCH DANGEROUS
ASKED HOW HER PARENTS FEEL ABOUT HER WORKING IN SUCH DANGEROUS
SURROUNDINGS, MIRIAM SAYS, "THEY DON'T KNOW IT'S DANGEROUS. I TELL THEM
I'M EXPOSED TO LESS RADIATION THAN MOST PEOPLE GET IN THE CITY FROM
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I'M EXPOSED TO LESS RADIATION." THEN, SAYS MIRIAM, "I'M VERY
CAREFUL." CAREFUL.

THE PUPIN CYCLOTRON ON THE COLUMBIA CAMPUS ORIGINALLY WAS CONSTRUCTED IN 1938. IT WAS REBUILT AND IMPROVED IN 1940. BEFORE ATOMIC STOCKPILES WERE BUILT UP AT BROOKHAVEN, LONG ISLAND, AND OAK RIDGE, TENNESSEE, IT SUPPLIED RADIO-ACTIVE ISOTOPES TO THE MEDICAL WORLD FOR USE IN THE DETECTION OF VARIOUS BODY AILMENTS, AS WELL IN THE TREATMENT OF CANCER.

MISS LEVIN SAYS SHE USED TO THINK OF THOSE JOBS AS "ROUTINE" COMPARED WITH SOME OF THE EXPERIMENTAL WORK SHE WAS DOING FOR THE ATOMIC ENERGY COMMISSION. BUT ONE DAY SHE CHANGED HER MIND ABOUT THAT. SHE GOT A LITTER FROM A MAN WHO HAD EXPECTED TO DIE. HE'D BEEN TREATED WITH ISOTOPIS PRODUCED AT THE PUPIN LABORATORIES, AND HE WAS BACK AT WORK. "THAT WAS ONE OF THE BIGGEST THRILLS OF MY LIFE," SHE SAYS.

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