

148299

A Look at Criminal Justice Research

148299

**U.S. Department of Justice
National Institute of Justice**

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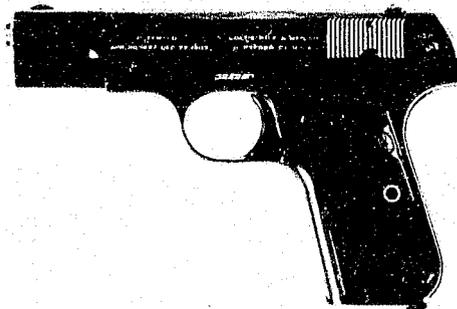
NI 71-015, "ULTRAVIOLET DETECTION OF METAL TRACES"

THIS PROJECT WILL TEST AND EVALUATE A NEW TECHNIQUE FOR DETECTING METAL TRACES WITH THE OBJECTIVE OF DETERMINING WHETHER A PERSON HAS BEEN CARRYING A WEAPON. AFTER CAREFULLY CONTROLLED LABORATORY EVALUATION, FIELD TRIALS WILL BE CONDUCTED BY SELECTED POLICE DEPARTMENTS AND FINALLY INITIAL WORKSHOPS WILL BE HELD TO DISSEMINATE THE NEW TECHNIQUE AND RESULTS OF THE EVALUATION TO APPROPRIATE LAW ENFORCEMENT PERSONNEL. A FINAL EVALUATION WILL BE CONDUCTED TO DETERMINE THE EXTENT OF SUCCESS RESULTING BY EMPLOYMENT OF THE NEW TECHNIQUE. THIS PHOTO ILLUSTRATES THE TRACE LEFT BY A GUN WHEN THE GUNMEN'S HAND IS SUBJECTED TO ULTRAVIOLET LIGHT IN THIS PROJECT.



NI 71-015, "ULTRAVIOLET DETECTION OF METAL TRACES"

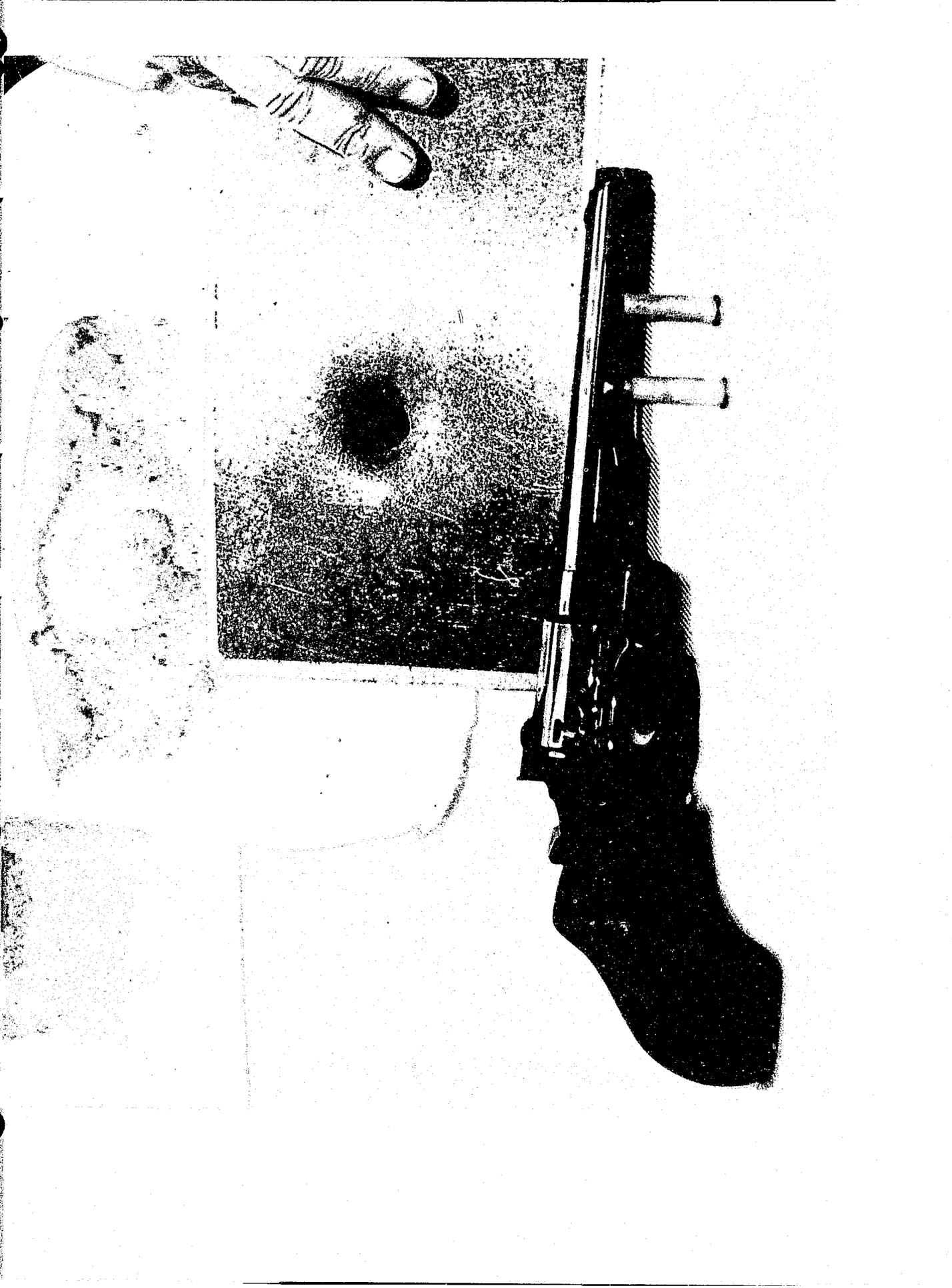
THE PATTERN OF THE TRACE ENABLES A POLICE OFFICER TO
DETERMINE THE TYPE OF GUN THAT WAS HELD.



NI 71-037IA, "LAW ENFORCEMENT STANDARDS LABORATORY"

THE INSTITUTE HAS ENTERED INTO AN INTERAGENCY AGREEMENT WITH THE NATIONAL BUREAU OF STANDARDS TO DEVELOP RELIABLE STANDARDS FOR EVALUATION OF LAW ENFORCEMENT EQUIPMENT.

THIS BULLET-PIERCED SHIELD IS ONE OF A NUMBER OF PIECES OF EQUIPMENT THAT THE PROGRAM IS INVOLVED WITH.



NI 70-068, "CONTINUATION AND RESEARCH ANALYSIS OF FAMILY
CRISIS AND CONFLICT RESOLUTION DATA" - TRAINING
POLICE IN THIS AREA

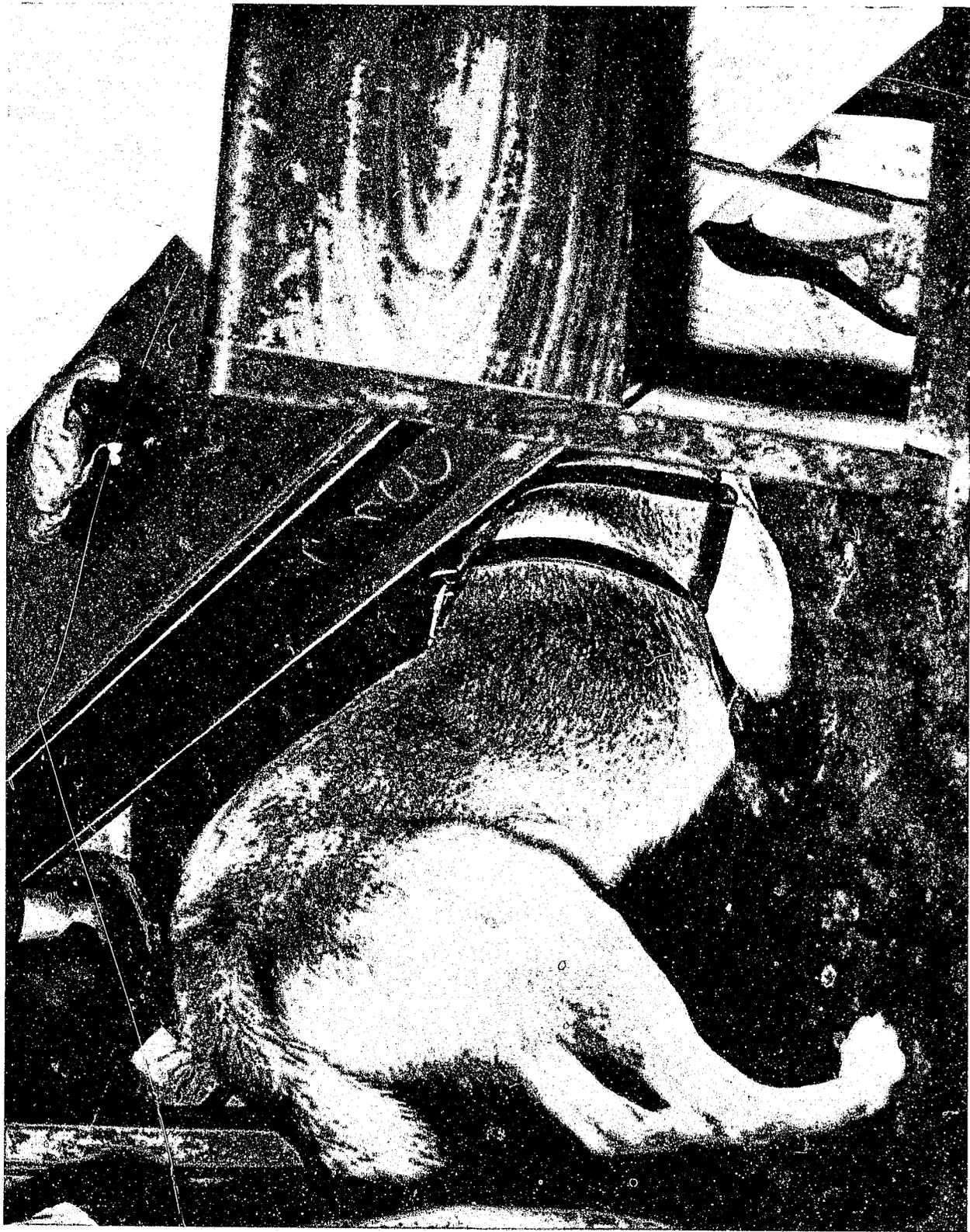
THIS IS THE THIRD PHASE OF A PROJECT TO TRAIN POLICE IN FAMILY CRISIS INTERVENTION. THE INITIAL DEMONSTRATION PHASE, UTILIZING A GROUP OF NEW YORK CITY POLICEMEN, ESTABLISHED THE FEASIBILITY OF TRAINING POLICE TO HANDLE DOMESTIC DISTURBANCES EFFECTIVELY. THE SECOND PHASE, INVOLVING THE ENTIRE POLICE COMPLEMENTS OF TWO HIGH-RISE PUBLIC HOUSING PROJECTS, EXPANDED TRAINING TO COVER BROADER SKILLS IN CONFLICT RESOLUTION. THE CURRENT PROJECT WILL ALLOW COMPLETION OF THE SECOND PHASE IN INTENSIVE ANALYSIS OF DATA COLLECTED DURING THE FIRST TWO PHASES.

THIS PHOTO ILLUSTRATES A POLICE OFFICER ATTEMPTING TO CALM A FAMILY CRISIS INTERVENTION.



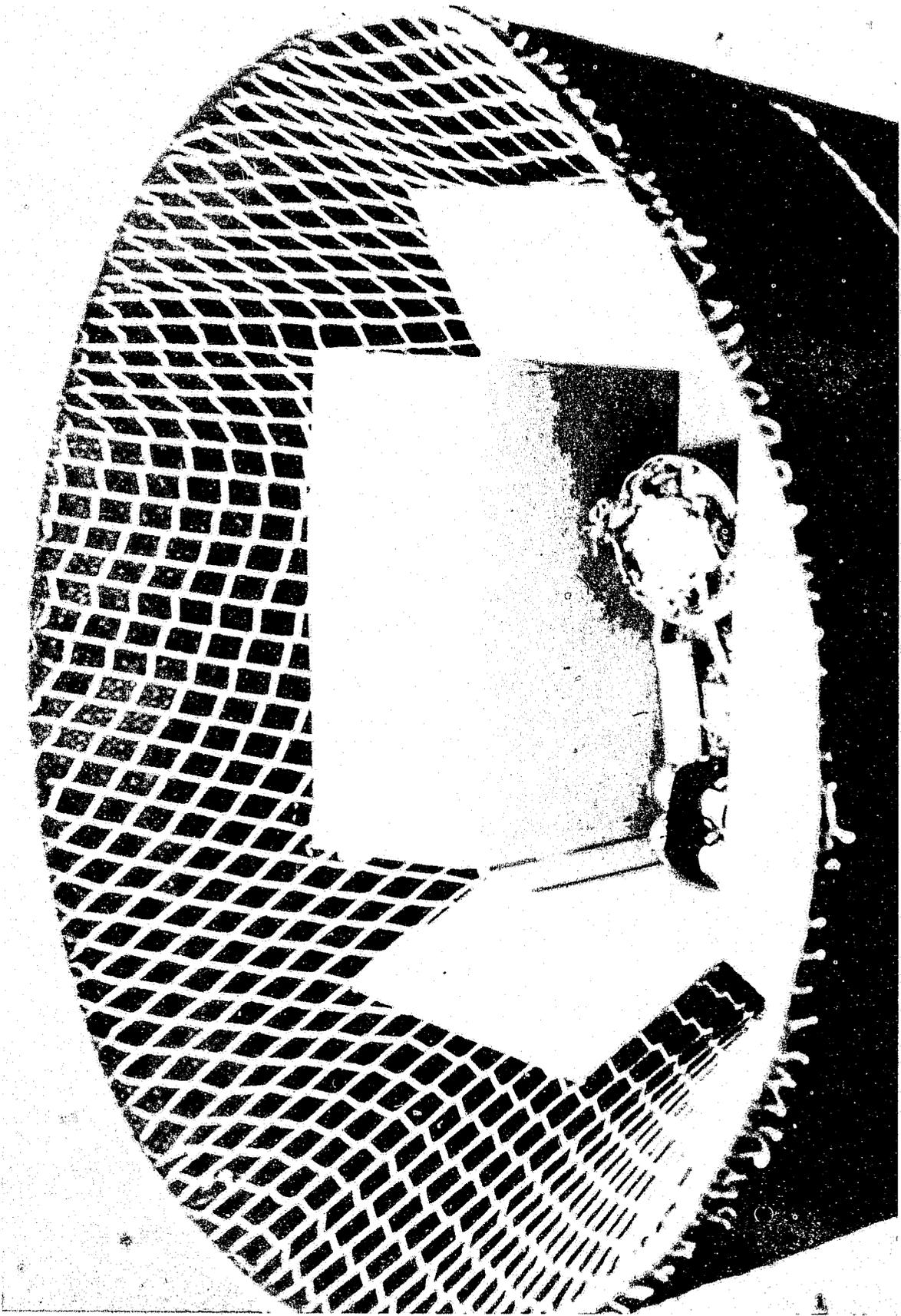
NI 71-051, "DOGS TRAINING TO LOCATE BOMBS"

THIS DOG HAS BEEN GIVEN INTENSIVE TRAINING UNDER AN
INSTITUTE GRANT TO ENABLE HIM TO DETECT HIDDEN EXPLOSIVES IN
BUILDINGS.



NI 70-094, "BOMB DISPOSAL EQUIPMENT AND EVALUATION"

IN THIS PROJECT, THE NAVAL EXPLOSIVE ORDNANCE DISPOSAL FACILITY WILL EVALUATE THE EFFECTIVENESS OF A BOMB DISPOSAL BASKET. THEY WILL EVALUATE THE MAXIMUM EXPLOSIVE INTENSITY THAT THE BASKET CAN WITHSTAND IN OPEN FIELDS AND LARGE AND SMALL ROOMS SO AS TO ESTIMATE POTENTIAL DAMAGES TO PERSONS AND BUILDINGS AT SELECTED DISTANCES FROM THE BLASTS. THEY WILL ALSO EVALUATE THE PRACTICAL UTILITY OF THE BOMB DISPOSAL BASKET AND ASSOCIATED ACCESSORIES FOR REMOVING CLANDESTINE BOMBS FROM MULTISTORY BUILDINGS WITH MINIMUM RISKS. THIS PHOTO ILLUSTRATES A BOMB SET TO EXPLODE IN AN EXPERIMENTAL CONTAINER.



NI 70-094, "BOMB DISPOSAL EVALUATION" -

BOMB CONTAINER UNSUCCESSFUL

IN THIS ILLUSTRATION, THE "BOMB-BASKET" PREVIOUSLY SHOWN HAS FAILED TO SAFELY CONTAIN THE FORCE OF THE EXPLOSION. SINCE THIS TEST WAS CONDUCTED, THE MANUFACTURER HAS IMPROVED THE DESIGN OF THIS DEVICE.

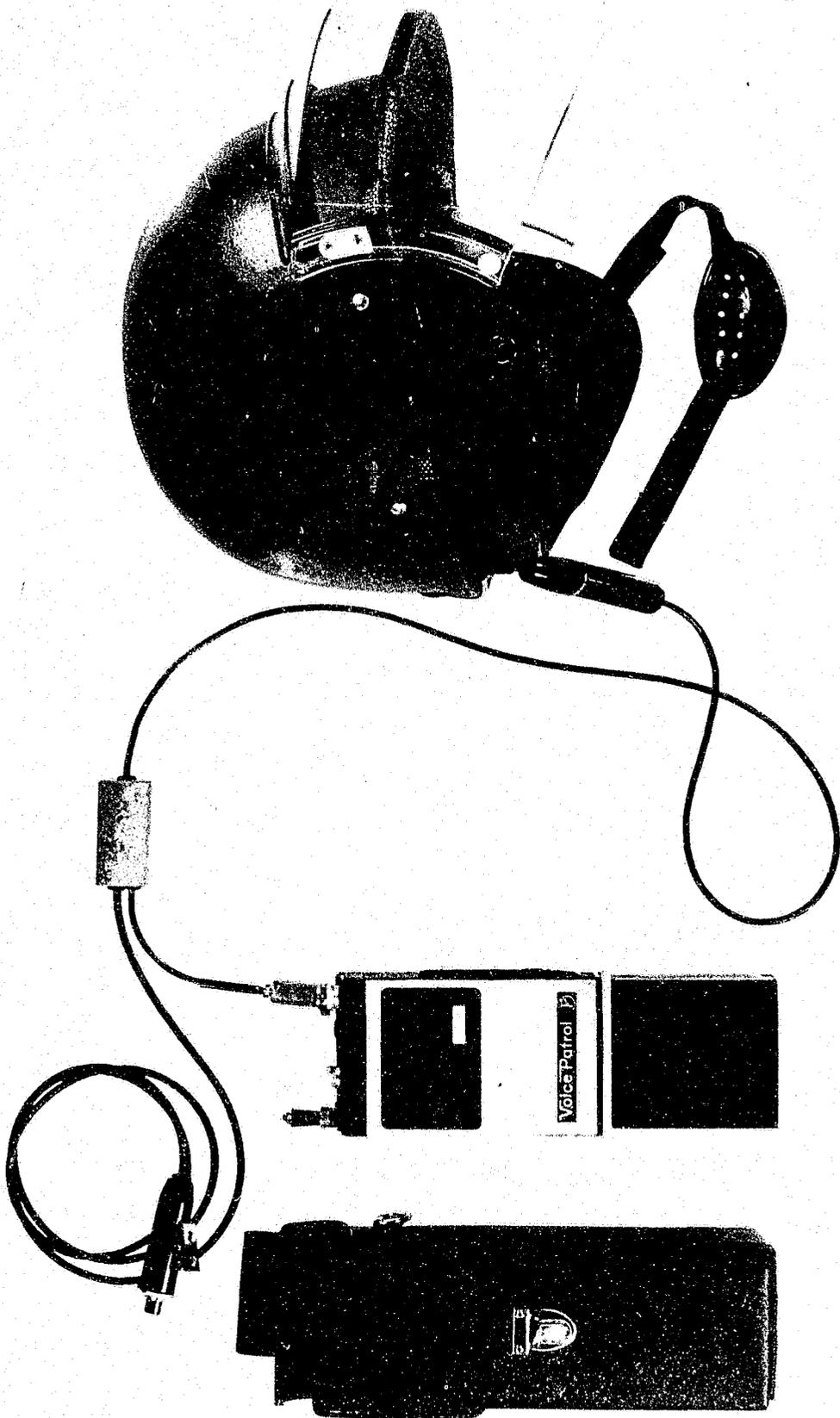
TO MAINTAIN COMMUNICATIONS BETWEEN POLICE OFFICERS AND THEIR MEN IN RIOT SITUATIONS UNDER HIGH NOISE CONDITIONS, THE INSTITUTE WILL FURTHER DEVELOP AND EVALUATE A NEW SET OF EQUIPMENT COMBINING THE TRANSCEIVER, HELMET AND GAS MASK. THAT EQUIPMENT IS PICTURED HERE.

THIS PICTURE ILLUSTRATES THE BONE CONDUCTION MICROPHONE (CENTER OF HEADGEAR) AND EARPLUG RECEIVER FOR THE HELMET PREVIOUSLY SHOWN.

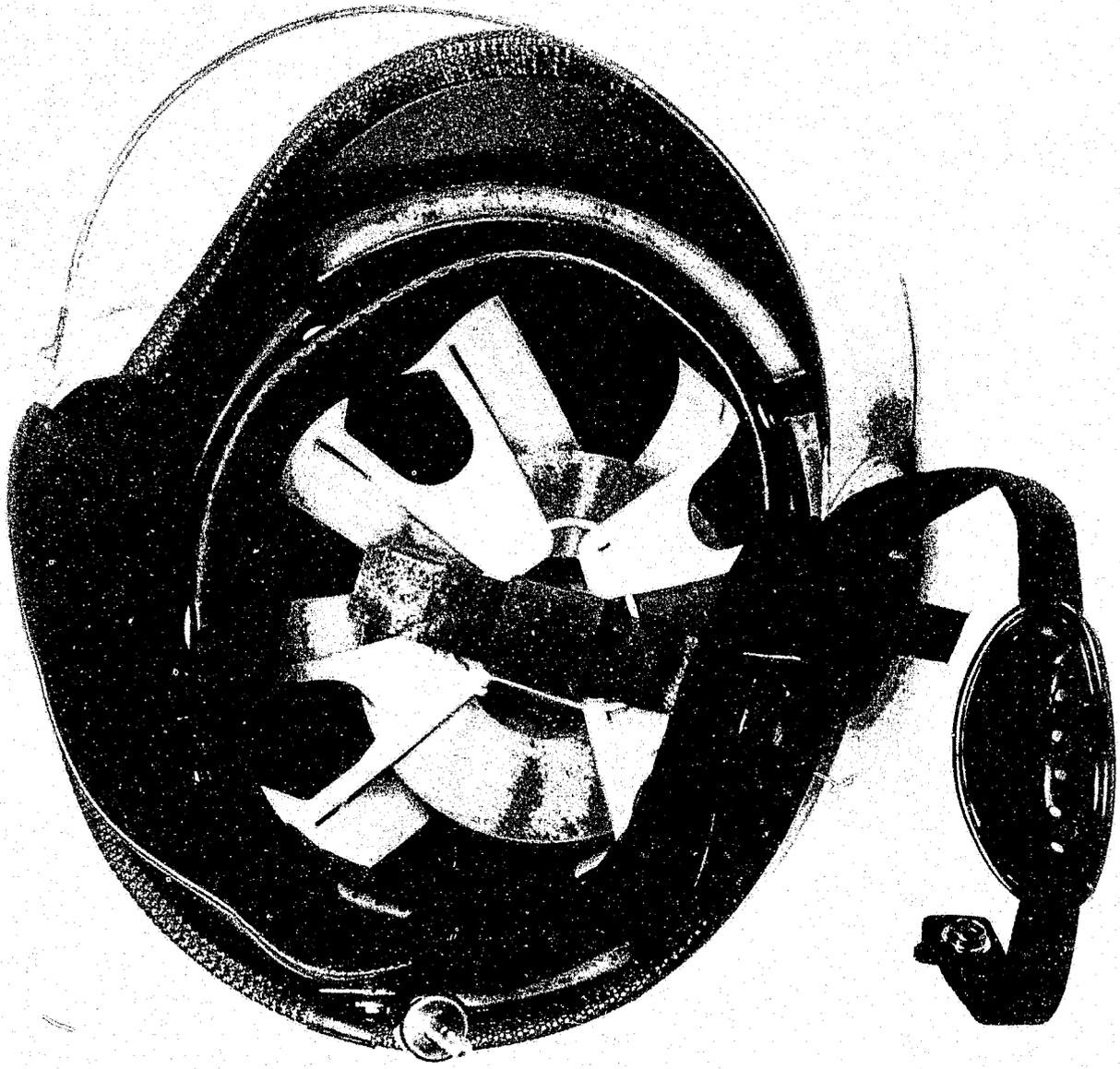
THE INSTITUTE IS EVALUATING THE THERMOLUMINESCENCE PHOTOMETRIC SYSTEM AS A TOOL FOR THE CRIMINALISTICS LABORATORY IN THE ANALYSIS AND COMPARISON OF SUBSTANCES. THE DEVICE USED IN THIS SYSTEM IS PICTURED HERE.



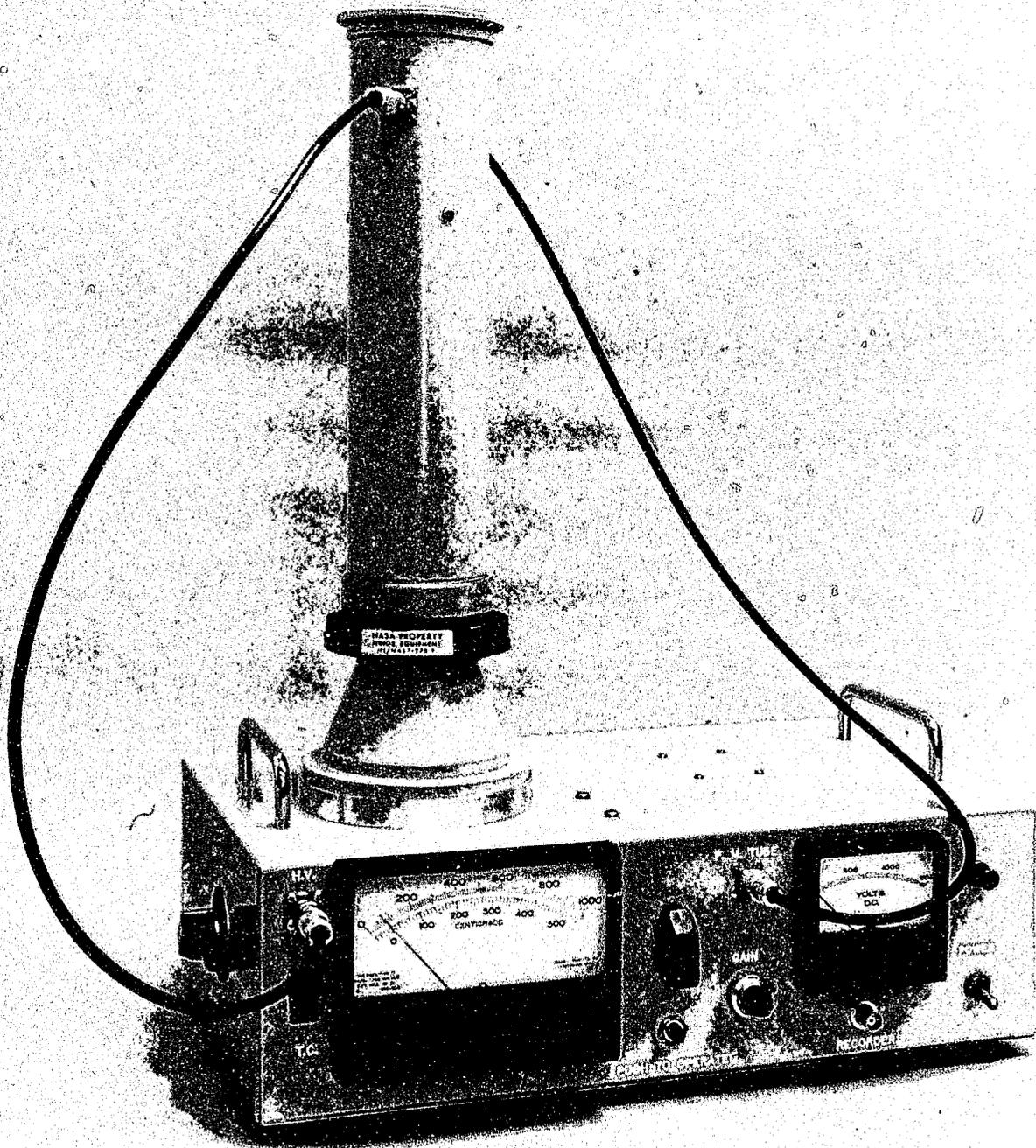
NEW POLICE EQUIPMENT COMBINING THE TRANSCEIVER, HELMET AND
GAS MASK TO BE DEVELOPED AND EVALUATED BY THE INSTITUTE.



THE BONE CONDUCTION MICROPHONE OF THE PREVIOUSLY PICTURED
HELMET.



THERMOLUMINESCENCE PHOTOMETRIC SYSTEM (FOR THE ANALYSIS
AND COMPARISON OF SUBSTANCES) TO BE EVALUATED BY THE INSTITUTE.



NI 70-004, "RESEARCH OF VOICE IDENTIFICATION"

THIS PROJECT IS PHASE II OF A THREE-PHASE PROGRAM FOR THE STUDY, TESTING, VALIDATION AND DEVELOPMENT OF THE 'VOICEPRINT' TECHNIQUE OF VOICE IDENTIFICATION. PHASE I MADE A COMPREHENSIVE STUDY OF EXISTING KNOWLEDGE AND RESEARCH ON VOICEPRINT IDENTIFICATION AND CONCLUDED THAT THE TECHNIQUE HAD POTENTIAL AS A LAW ENFORCEMENT TOOL. THE CURRENT PHASE WILL SEEK TO VALIDATE THE TECHNIQUE FOR SCIENTIFIC AND FORENSIC PURPOSES. IT WILL COMPARE VISUAL IDENTIFICATION WITH COMPUTER IDENTIFICATION AND AUDITORY IDENTIFICATION. A FEASIBILITY STUDY OF THE VOICEPRINT METHOD FOR LAW ENFORCEMENT USE WILL ALSO BE COMPLETED. THIS PHOTO ILLUSTRATES SAMPLE SPECTROGRAMS UTILIZED IN THIS PROJECT.

Can you identify, on the basis of format patterns (dark bars) and format intensity (darkness of the bars), which of the three samples (A, B, or C) was recorded by the same person who recorded #1? Sample and Duplication spectrograms were recorded separately. (See answer below.)



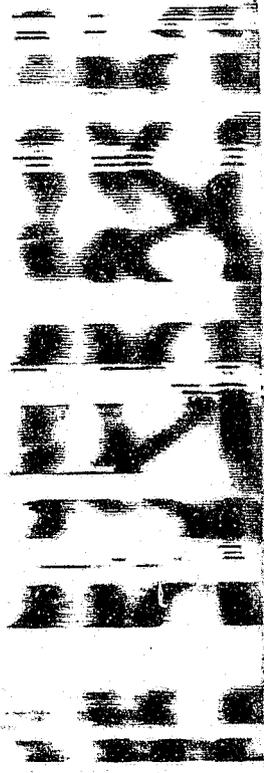
A ?

TYPE 9100 SONAR/AM - RAY ELECTRIC CO. PINE BROOK, N.J.



B ?

TYPE 9100 SONAR/AM - RAY ELECTRIC CO. PINE BROOK, N.J.



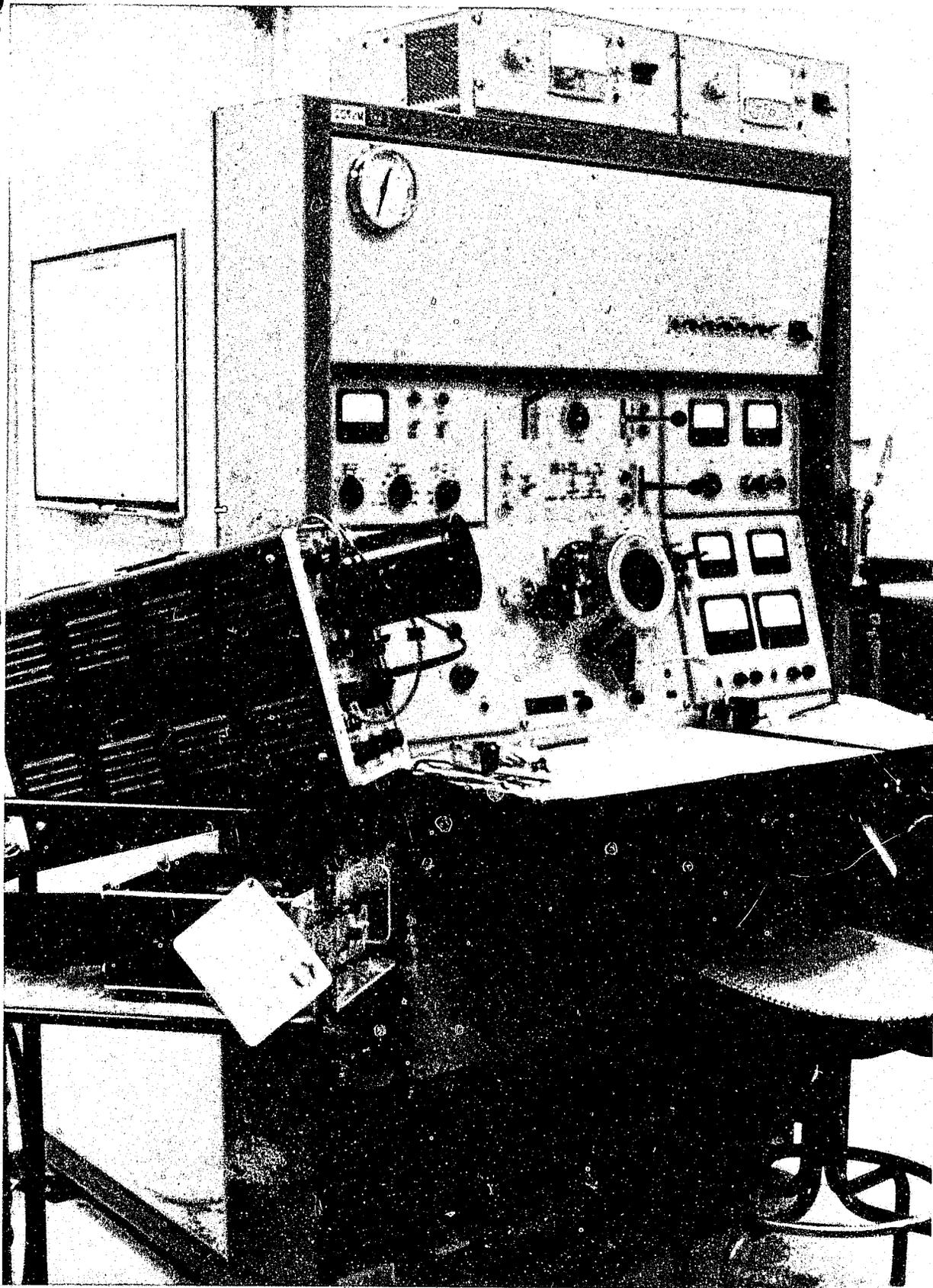
TYPE 9100 SONAR/AM - RAY ELECTRIC CO. PINE BROOK, N.J.



1

NI 71-019G, "FORENSIC APPLICATIONS OF SPARK SOURCE
MASS SPECTROMETRY AND NEUTRON ACTIVATION ANALYSIS" -
FOR TRACE ELEMENT ANALYSIS AND IDENTIFICATION

THIS APPLICATION IS THE FINAL PHASE CONTINUATION OF A STUDY CONDUCTED FOR THE PAST THREE YEARS. THERE HAS BEEN A MAJOR INTEREST IN IMPROVED TRACE ELEMENT ANALYSIS IN RECENT YEARS TO INCREASE THE RESOLUTION OF QUESTIONS OF COMMON ORIGIN. TWO NEW TECHNOLOGIES HAVE OFFERED GREATLY INCREASED POTENTIAL FOR ANALYZING ELEMENTAL COMPOSITION APPROACHING 1 PART PER BILLION, SPARK SOURCE MASS SPECTROMETRY AND NEUTRON ACTIVATION ANALYSIS. THE COMPARATIVE MERITS OF THESE TWO TECHNOLOGIES IN TRACE ELEMENT ANALYSIS HAS BEEN EXAMINED BUT A REFERENCE ON THE UTILIZATION OF THESE TECHNOLOGIES EMPHASIZING SAMPLE PREPARATION IS NEEDED AND WILL BE THE RESEARCH PRODUCT. THIS REFERENCE TEXT WILL SIGNIFICANTLY AID CRIME LABORATORIES IN MORE EFFICIENTLY UTILIZING THESE TECHNOLOGIES.



NI 70-006, "POLICE AIR MOBILITY EVALUATION"

THIS GRANT AUGMENTS THE POLICE AIR MOBILITY STUDY BEING CONDUCTED BY THE DADE COUNTY PUBLIC SAFETY DEPARTMENT, FLA., UNDER AN OLEP GRANT. SPECIFICALLY, CONSULTING SERVICES WILL BE PROVIDED IN A COMPREHENSIVE SURVEY OF POLICE HELICOPTER OPERATIONS IN LEADING POLICE JURISDICTIONS IN THE UNITED STATES; IN HELPING PLAN AND DEFINE THE AIR MOBILITY TEST FIELD EFFORT IN DADE COUNTY: IN PARTICIPATING IN ON-SITE DATA EVALUATION; AND CONDUCTING CONCURRENT ANALYSIS. THE RESULT WILL BE AN EVALUATION OF THE STOL (SHORT-TAKE-OFF-AND-LANDING) AIRCRAFT FOR POLICE OPERATIONS WHICH WILL PROVIDE INITIAL GUIDELINES TO BE USED BY LEAA IN EVALUATING APPLICATIONS FOR GRANTS TO PROCURE HELICOPTERS, STOL AIRCRAFT, OR MIXES OF HELICOPTERS AND STOLS FOR DIFFERENT SIZE JURISDICTIONS AND POLICE PURPOSES. THIS PHOTO ILLUSTRATES THE USEFULNESS OF THE HELICOPTER IN APPREHENDING CRIMINALS.



NI 71-0271A, "FEASIBILITY STUDY OF FIBER OPTICS TO
EXAMINE INDENTED WRITING" - EVIDENCE GATHERING TOOL

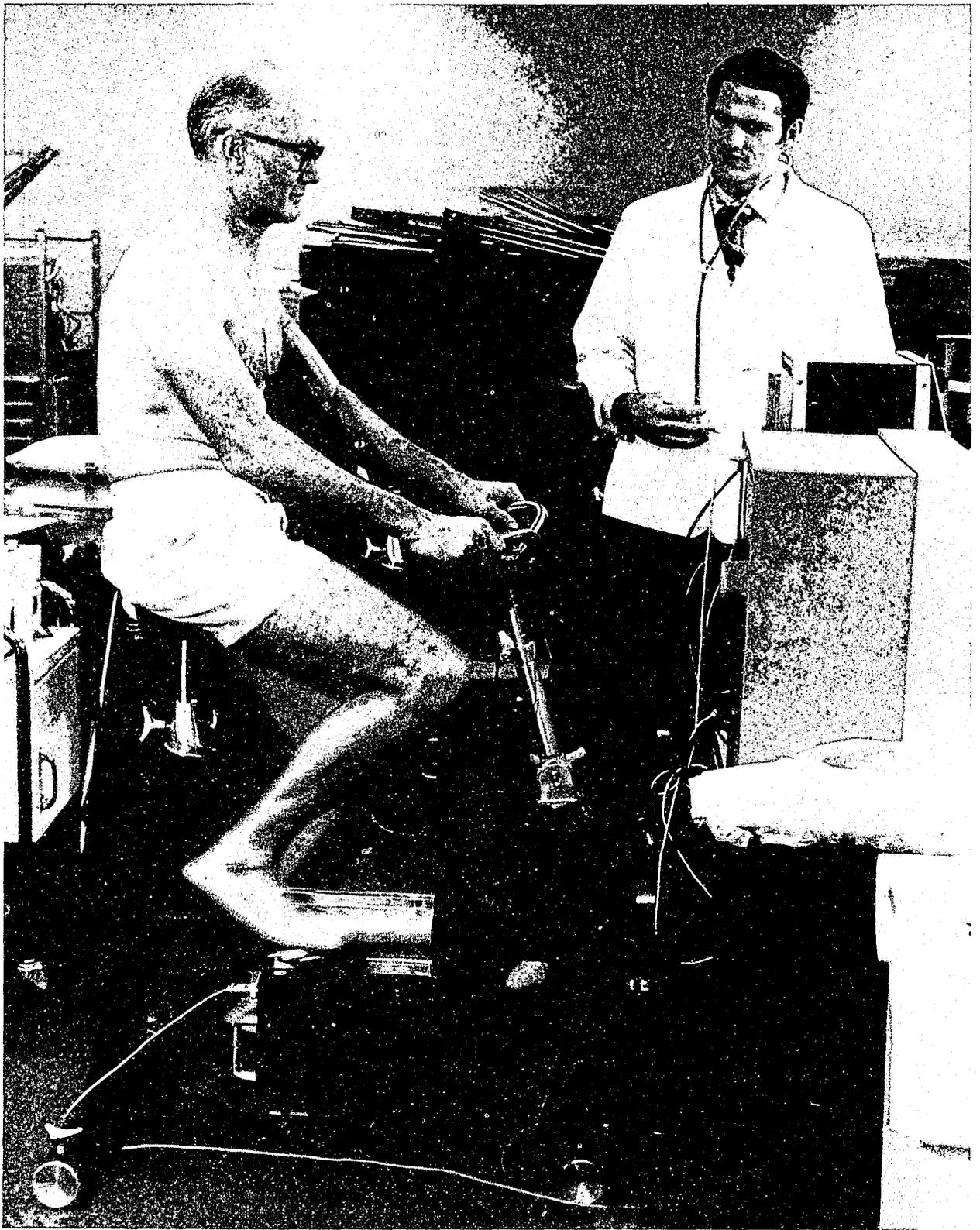
THE INSTITUTE IS INVESTIGATING THE POSSIBILITY OF UTILIZING
A NASA DEVELOPED TECHNIQUE TO DETECT FAINTLY INDENTED IMPRESSIONS
OF WRITING IN ORDER TO DISCOVER WHAT HAD BEEN WRITTEN ON THE
PAGE ABOVE. THIS POSSIBLE EVIDENCE-GATHERING DEVICE IS PICTURED
HERE.

6
D
Saturday 27

Memoranda

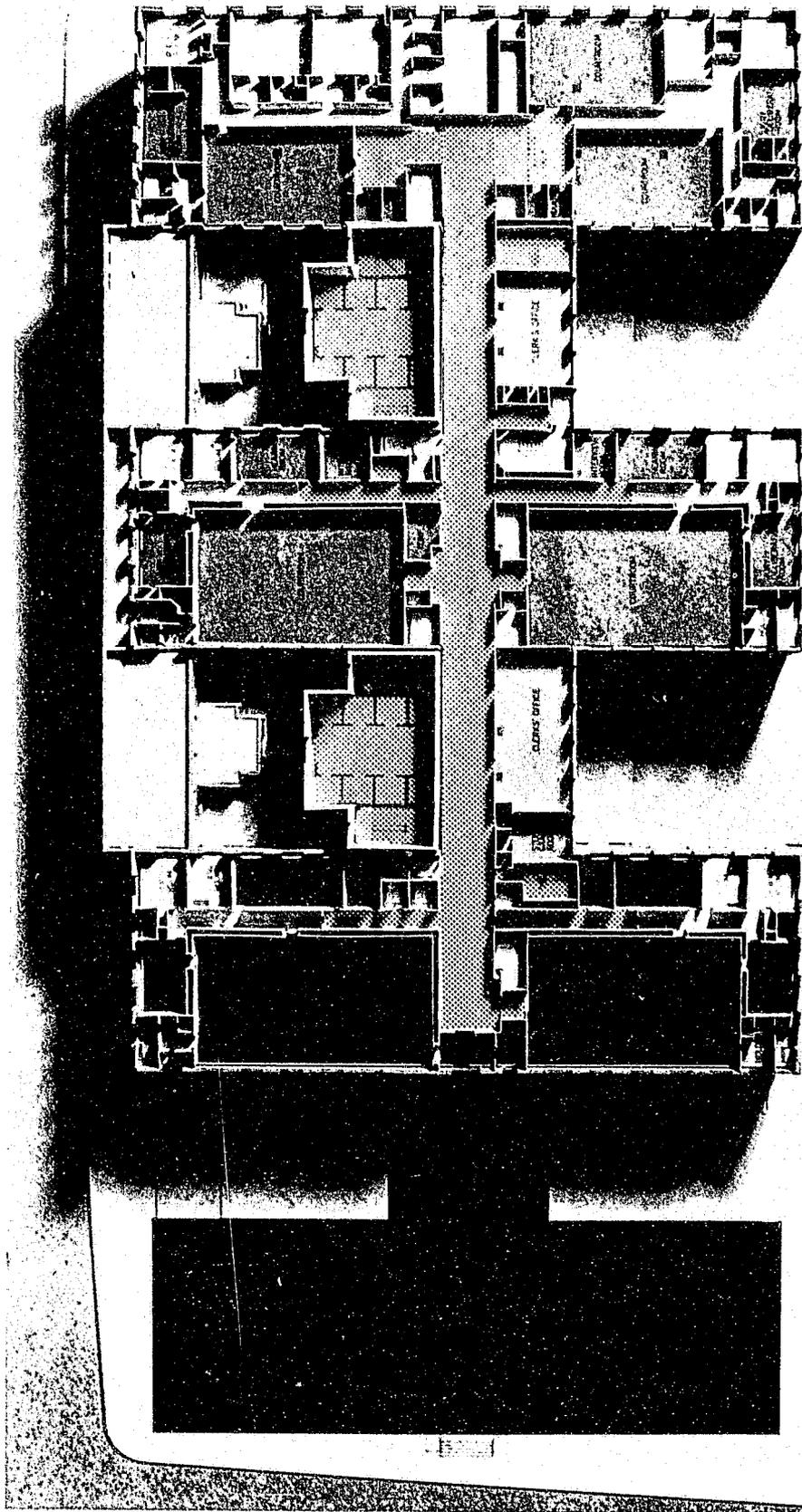
NI 70-042, 'PHYSIOLOGICAL FITNESS STANDARDS FOR
LAW ENFORCEMENT OFFICERS'

PHYSIOLOGICAL STANDARDS MUST BE ESTABLISHED FOR POLICE FORCES TO INSURE THAT ENTERING POLICE CAN PERFORM THE PHYSICAL TASKS AND WITHSTAND THE PHYSICAL CONDITIONS REQUIRED OF THEM AND THAT POLICE RETAINED IN THE FORCE CONTINUE TO BE ABLE TO FULFILL THESE NEEDS. PHYSIOLOGICAL CONDITIONS AND PHYSICAL PERFORMANCE ABILITIES ARE INCLUDED. THIS TWO-YEAR PROJECT IS DIRECTED TO ESTABLISH SUCH STANDARDS TO CONTRIBUTE TO POLICE CAREER DEVELOPMENT AND TO THE EFFECTIVENESS OF POLICE DEPARTMENTS. THIS PHOTO ILLUSTRATES A POLICE OFFICER UNDERGOING AN INTENSIVE PHYSICAL EXAMINATION.



NI 70-040, 'REORGANIZATION AND RENOVATION OF
CRIMINAL COURT FACILITIES'

THE APPELLATE DIVISIONS OF THE NEW YORK SUPREME COURT FOR THE FIRST AND SECOND DEPARTMENTS (NEW YORK CITY AND LONG ISLAND) WILL UTILIZE THIS GRANT FOR THE FIRST YEAR OF A TWO-YEAR STUDY OF THE FEASIBILITY AND COSTS OF RENOVATING EXISTING COURT STRUCTURES TO MEET THE EXPANDED VOLUME OF CRIMINAL PROCEEDINGS AND COURT PROCEDURES NEWLY DESIGNED TO MEET THIS INCREASED VOLUME. THE STUDY WILL CENTER AROUND THE FEASIBILITY AND COSTS OF RESTRUCTURING THE NEW YORK CITY CRIMINAL COURTS BUILDING IN NEW YORK CITY. A HANDBOOK FOR JUDICIAL ADMINISTRATOR CONCERNED WITH THE SPACE AND FACILITIES PROBLEM WILL BE ONE OF THE PRODUCTS OF THIS RESEARCH. THIS PICTURE ILLUSTRATES A MODEL OF THE NEW YORK CRIMINAL COURTS BUILDING IN MANHATTAN.



MANHATTAN MEN'S HOUSE OF DETENTION

MANHATTAN CRIMINAL COURT BUILDING

NI 71-042IA, "COMPARATIVE STUDY OF COURTROOM TRANSCRIPTION
TECHNIQUES"

THE INSTITUTE IS EVALUATING A NUMBER OF AUTOMATED
TRANSCRIPTION TECHNIQUES IN ORDER TO REDUCE THE WAITING TIME
WHICH OFTEN DELAYS COURT PROCEEDINGS. THIS PHOTO ILLUSTRATES
ONE OF THESE METHODS.



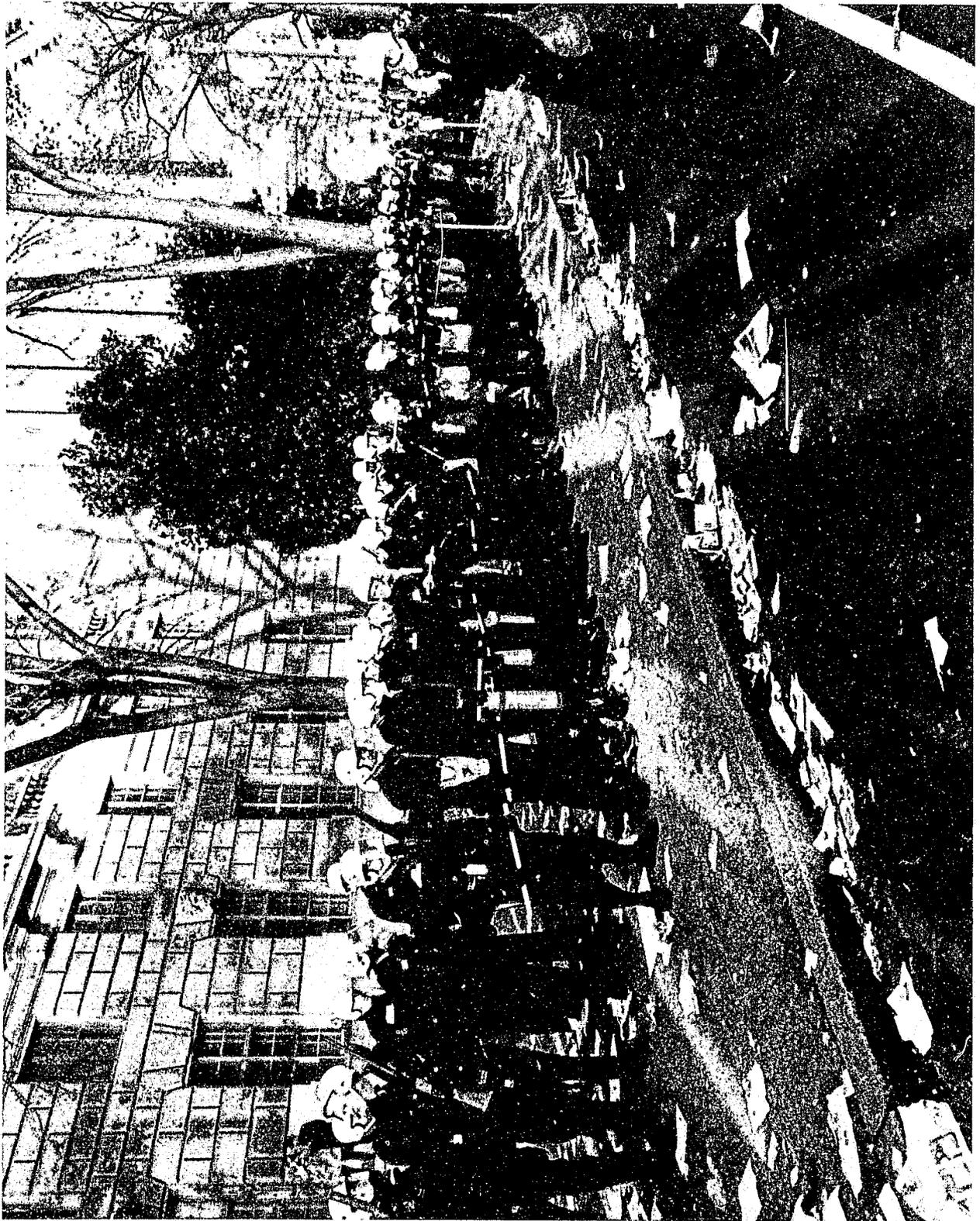
NI 70-081, "EVALUATION OF THE WALTER SCOTT CRISWELL
HOUSE GUIDED GROUP INTERACTION PROGRAM"

THIS PROJECT IS A FEASIBILITY STUDY TO TEST A METHODOLOGY FOR EVALUATING GUIDED GROUP INTERACTION (GGI), A WIDELY-USED CORRECTIONAL TREATMENT PROGRAM. THE METHODOLOGY CONSISTS OF ANALYSIS OF THE BEHAVIOR CHANGE IN BOYS DURING GGI AS IT RELATES TO CHANGES OCCURRING OUTSIDE THE GGI SESSIONS AND AFTER THEY RETURN TO THE COMMUNITY. GGI SESSIONS WILL BE VIDEOTAPED AND ANALYZED. BEHAVIOR EVALUATIONS WILL ALSO BE GATHERED FROM PEERS, GGI GROUP LEADERS AND EMPLOYERS. IF SUCCESSFUL, THE METHODOLOGY COULD BE USED FOR EVALUATION OF VARIOUS CORRECTIONAL TREATMENT PROGRAMS. THIS PHOTO PICTURES A RESEARCHER VIDEOTAPING A SESSION.



NI 70-099C, "LAW ENFORCEMENT COMMAND AND CONTROL
PROBLEMS RELATED TO CROWDS AND DEMONSTRATIONS"

THE OBJECTIVE OF THIS RESEARCH IS THE IDENTIFICATION OF LAW ENFORCEMENT COMMAND AND CONTROL PROBLEMS CONFRONTING CIVILIAN POLICE AGENCIES IN THE CONTROL OF CROWDS AND DEMONSTRATIONS. THE STUDY WILL SYSTEMATICALLY DESCRIBE THESE PROBLEMS AND ALSO THE PROCEDURES, METHODS AND TECHNIQUES USED BY CIVILIAN LAW ENFORCEMENT AGENCIES TO COME TO TERMS WITH PROBLEMS RELATED TO THE CONTROL OF CROWDS AND DEMONSTRATIONS. THIS PHOTO ILLUSTRATES THE COMMAND AND CONTROL TACTICS OF A WELL-EQUIPPED POLICE FORCE.



NI 70-033, "DECENTRALIZED INVESTIGATION AND REFERRAL
OF CONSUMER CRIMES AND ABUSES"

THE PRIMARY OBJECTIVE OF THIS PROJECT IS THE DEVELOPMENT OF TECHNIQUES FOR COMBATTING CONSUMER FRAUD ON THE LOCAL LEVEL IN NEW YORK. THE GRANTEE WILL EVALUATE A NEW AND COMPREHENSIVE CONSUMER PROTECTION STATUTE AND EXPLORE THE USE OF NEIGHBORHOOD COMPLAINT INTAKE AND ENFORCEMENT PROCEDURES. TWO SUCH NEIGHBORHOOD OFFICES WILL BE SET UP, AND EACH WILL BE STAFFED BY AN ATTORNEY EMPLOYED BY THE NEW YORK CITY GOVERNMENT AND BY NEIGHBORHOOD RESIDENTS WHO WILL BE TRAINED IN CONSUMER PROTECTION WORK. THESE LOCAL OFFICES WILL ALSO EXPLORE METHODS FOR INVOLVING LOCAL COMMUNITY POPULATIONS IN THE DRIVE AGAINST CONSUMER CRIMES AND ABUSES. THE EVALUATION REPORT SHOULD ACT AS A GUIDE TO FUTURE EFFORTS AT LOCALLY MANAGED CONSUMER PROTECTION. THIS PHOTO ILLUSTRATES A WIDELY-DISTRIBUTED FLYER UTILIZED IN THIS PROJECT.



**Consumer
Complaint
Center**

**The City Department of Consumer Affairs
now has a branch on the Lower East Side!**

If you have ever:

- Purchased defective goods,
- Been high pressured into buying unwanted goods,
- Paid for repairs not made, or not needed,
- Been misled by deceptive advertising,
- Received an unrealistically low estimate from a mover or repairman,
- Been harassed by creditors or collection agencies,
- Been deceived by any consumer fraud . . .

Come in Write in Phone in

Our lawyers work for you free of charge.

147 Delancey Street (corner Suffolk Street)
New York, New York 10002
Telephone: 475-7810
Open: 10 AM to 6 PM, Monday to Friday

A Neighborhood Branch of the Department of
Consumer Affairs of the City of New York

John V. Lindsay
Mayor

Bess Myerson Grant
Commissioner

This office is financed by a grant from the United States Department of Justice.



**Centro de
Quejas del
Consumidor**

**El Departamento de Asuntos del Consumidor
de la Ciudad de Nueva York tiene ahora una
Sucursal en el Bajo Este Manhattan!**

Si Ud ha:

- Comprado mercancía defectuosa,
- Sido convencido a comprar mercadería que no quiere,
- Pagado por reparaciones que no necesitaba o no quería,
- Sido engañado por anuncios fraudulentos,
- Ha recibido un calculo demasiado barato de una casa de mudanzas o por reparaciones,
- Sido molestado por acreedores o agencias de cobros,
- Sido engañado por cualquier fraude al consumidor . . .

VENGA A VERNOS ESCRIBANOS LLAMENOS

Nuestros abogados trabajan gratis.

147 Delancey Street Cerca Suffolk St.
New York, New York 10002
Telefono: 475-7810
Abierto: 10 am — 6 pm, Lunes a Viernes

Una Sucursal en su vecindario del Departamento de
Asuntos del Consumidor de la Ciudad de Nueva York

John V. Lindsay
Alcalde

Bess Myerson Grant
Comisionada

Esta oficina es financiada por una concesion del Departamento de Justicia.

NI 70-023 (71-DF-678), "SANTA CLARA CRIMINAL JUSTICE
PILOT PROGRAM' - COMBATTING FELONIOUS CRIMES BY
CITIZEN INVOLVEMENT

THIS PROJECT ESTABLISHES SANTA CLARA COUNTY, CALIFORNIA,
AS A COMMUNITY-BASED RESEARCH AND DEVELOPMENT PILOT CITY TO
IDENTIFY CRIMINAL JUSTICE PROBLEMS AND DISCOVER, TEST,
EVALUATE, AND DISSEMINATE SOLUTIONS. THE NATIONAL INSTITUTE
CAN THEREBY DISCOVER AND DEVELOP NEW AND IMPROVED METHODS
FOR REDUCING CRIME AND DELINQUENCY IN THE UNITED STATES.
THIS PHOTO ILLUSTRATES PILOT CITY PROGRAM TO COMBAT
FELONIOUS CRIMES BY ALERTING CITIZENS TO PREVENTION
MEASURES.



NI 70-023 (71-DF-679), "SANTA CLARA CRIMINAL JUSTICE
PILOT PROGRAM" - METHADONE TREATMENT
AND REHABILITATION

THIS PHOTO ILLUSTRATES THE USE OF THE FREE RADICAL
ASSAY TECHNIQUE (FRAT) OF HEROIN DETECTION IN ANOTHER
SAN JOSE PILOT CITY PROJECT. THIS NEW METHOD IS
SIGNIFICANTLY CHEAPER, FASTER AND MORE SENSITIVE THAN
PREVIOUS METHODS.