**REPORT DOCUMENTATION PAGE**

**1a. REPORT SECURITY CLASSIFICATION**

Unclassified

**2a. SECURITY CLASSIFICATION AUTHORITY**


**3. DISTRIBUTION/AVAILABILITY OF REPORT**

Approved for public release; distribution unlimited.

**AD-A234 835**

**4. DATES COVERED**

Final

**5. MONITORING ORGANIZATION REPORT NUMBER(S)**


**6a. NAME OF PERFORMING ORGANIZATION**

North Carolina State University

**6b. OFFICE SYMBOL**

(If applicable)

**7a. NAME OF MONITORING ORGANIZATION**

Office of Naval Research

**7b. ADDRESS (City, State, and ZIP Code)**

Columbus, OH 43210-1002

**8a. NAME OF FUNDING/SPONSORING ORGANIZATION**

Office of Naval Research

**8b. OFFICE SYMBOL**

(If applicable)

**9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER**


**10. SOURCE OF FUNDING NUMBERS**


**11. TITLE (Include Security Classification)**

Symposium E - Properties of II-VI Semiconductors: Bulk Crystals, Epitaxial Films, Quantum Well Structures (FINAL REPORT)

**12. PERSONAL AUTHOR(S)**

J. F. Schetzina

**13a. TYPE OF REPORT**

Final

**13b. TIME COVERED**

FROM 11/13/89 TO 10/31/90

**14. DATE OF REPORT (Year, Month, Day)**

91/03/01

**15. PAGE COUNT**

4

**16. SUPPLEMENTARY NOTATION**

The view, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Office of Naval Research position, policy, or decision, unless so designated by other documentation.

**17. COSATI CODES**


**18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)**


**19. ABSTRACT (Continue on reverse if necessary and identify by block number)**


**20. DISTRIBUTION/AVAILABILITY OF ABSTRACT**

Unclassified

**21. ABSTRACT SECURITY CLASSIFICATION**

Unclassified

**22a. NAME OF RESPONSIBLE INDIVIDUAL**

J. F. Schetzina

**22b. TELEPHONE (Include Area Code)**

(919) 737-3314

**22c. OFFICE SYMBOL**


**DD FORM 1473, 84 MAR**

83 APR edition may be used until exhausted.

All other editions are obsolete.

**DTIC FILE COPY**

**91 4 12 023**

**SECURITY CLASSIFICATION OF THIS PAGE**

UNCLASSIFIED
The 1989 Fall Meeting of the Materials Research Society was held November 27 - December 2, 1989 in Boston, Massachusetts. The focus of Symposium E dealt with recent developments in II-VI semiconductors. The meeting covered a wide variety of topics including synthesis of II-VI materials (bulk crystals, thin films, and layered structures), properties studies (electrical, optical, photoelectric, structural, mechanical), defects (theory and measurement), controlled substitutional doping, and applications of II-VI semiconductors.

The II-VI compound semiconductors possess characteristics which, as a group, are unique. Among the most active areas of investigation in these materials today are blue light emitters based on ZnSe, infrared detectors based on mercury-containing compounds such as HgCdTe, and the properties of dilute magnetic semiconductors.

Symposium E was a huge success, the meetings were attended by 250 researchers from across the globe, nearly 100 papers were orally presented. There were eighteen invited speakers. The funds from this grant were used to subsidize the invited speakers for travel and registration.
INVITED SPEAKERS

Dr. J. Arias
Rockwell Science Center
Thousand Oaks, CA

Dr. S. Y. Auyang
Massachusetts Institute of Technology
Cambridge, MA

Dr. J. Depuydt
3M Corporation
St. Paul, MN

Professor J. K. Furdyna
University of Notre Dame
Notre Dame, IN 46556

Professor S. Ghandhi
Rensselaer Polytechnic Institute
Troy, NY

Professor N. C. Giles
West Virginia University
Morgantown, WV

Dr. C. A. Hoffman
Naval Research Laboratory
Washington, DC

Professor Makoto Konagai
Tokyo Institute of Technology
O-Okayama, Miguro-Ku, Japan

Professor Hiroshi Kukimoto
Tokyo Institute of Technology
Midori-Ku, Yokahama, Japan

Dr. Y. Marfaing
Laboratoire de Physique des Solides de Bellevue
Centre National de la Recherche Scientifique
Meudon Principal Cedex, France

Dr. S. McDevitt
II-VI Incorporated
Saxonburg, PA

Professor T. C. McGill
California Institute of Technology
Pasadena, CA
Professor Y. Nemirovsky  
Technion-Israel Institute of Technology  
Haifa, Israel  

Professor A. Numikko  
Brown University  
Providence, RI  

Dr. M. Sen  
Santa Barbara Research Center  
Goleta, CA  

Professor T. Taguchi  
Osaka University  
Suita, Osaka, Japan  

Dr. M. Tamargo  
Bellcore  
Red Bank, NJ  

Dr. Takafumi Yao  
Electrotechnical Laboratory  
Ibaraki, Japan