

1986 Northeast Regional Meeting

SEMICONDUCTOR-BASED HETEROSTRUCTURES: INTERFACIAL STRUCTURE & STABILITY

May 1-2, 1986 • AT&T Bell Laboratories, Murray Hill, New Jersey

Approximately 30 papers (9 invited) will be presented at the 1986 Northeast Regional Meeting, addressing Semiconductor-Based Heterostructures and the increasingly significant role they will play in future microelectronic devices.

Presentations in 4 technical sessions will focus on the materials science aspects of interfaces such as perfection, structure and stability, and their relationships to synthesis techniques. Major topics to be highlighted include: Amorphous and Strained-layer superlattices; Si on insulators; Epitaxial Silicides; Compound Semiconductors on Si; Metallization & Passivation of III-V Compounds; Multilevel metallization schemes for VLSI; Nanocomposite materials; Interfacial & Pseudomorphic Growth; Ohmic contact to compound semiconductors; Phase stability; and III-V synthesis (MOCVD vs MBE).

Invited presentations will be:

- "Chemical Interactions and Fermi Level Pinning at Metal/III-V Interfaces" L. Brillson, Xerox
- "Synthesis of Strained-Layer Superlattices by MOCVD" R. Dupuis, AT&T Bell Labs
- "Passivation of III-V Compound Semiconductors" R. Enstrom, RCA
- "Physical & Chemical Stability of SOI Structures" R.F.C. Farrow, IBM
- "The Formation & Structure of Semiconductor Interfaces Involving Group IV Elements" L.C. Feldman, AT&T Bell Labs
- "Current Status of Schottky-Barrier Formation at Silicide-Silicon Interfaces" P.S. Ho, M. Liehr, IBM
- "Structure & Thermal Relaxation of Amorphous Semiconductor Interfaces" P. Persans, Exxon
- "Heteroepitaxy of GaAs on Si by MBE" G.W. Turner, Lincoln Labs
- "MBE Synthesis of Superlattices" G. Wicks, Cornell

Tutorials and a dinner are being planned to supplement the technical program.

**For more information
and your advance registration packet,
contact:**

**Meetings Department
The Metallurgical Society**
420 Commonwealth Drive
Warrendale, PA 15086
(412) 776-9050
Telex 910 380 9397



1986 Northeast Regional Meeting is co-sponsored by The Metallurgical Society and the Materials Research Society.



MATERIALS RESEARCH SOCIETY
9800 McKnight Road, Suite 327
Pittsburgh, Pennsylvania 15237
U.S.A.

NON-PROFIT ORG.
U.S. Postage
PAID
Pittsburgh, PA
Permit No. 1807

COMING IN THE NEXT ISSUE

- **On-Site at Palo Alto and Strasbourg:
1986 Spring Meeting and E-MRS Meeting**
- **Activities of MRS Sections and Student Chapters**
- **New MRS Publications**