Center for Advanced Materials and Microelectronics

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Overview

Current State Contract	$100,000
Matching Funds	$1,356,588
Cumulative	$11,053,577
Industry Jobs Created	102
Center Related Jobs	37
Benefiting Utah Companies Thiokol, IBM, Evans & Sutherland, Hercules, Westscot Corp, Ceramatec	10
Patents Applied	--
Patents Issued	--
License Agreements	1

Technologies

*Multiple layer epitaxy

*Microprocessor design

*III/V compound chip design

*Ceramics as solid electrolytes

*Composite materials

Status

*Focus on III/V compounds, composites & ceramics estb. Advanced material for infrared detection in 8-12 micron range designed & disclosed to patent office

*Leading edge research in bismuth oxide fuel cells

*Close collaboration with local composites manufacturers

*$100K grant from Exxon Chemicals for polymer modeling work

*Image analysis system for failure diagnosis available for use by local industry

*Unique combined thermogravimetry/mass spectrametry facilities available

*6 presentations /manuscripts representing COE technology

Economic Impact

*Option on infrared detection chip license taken by Space Eng. Inc., Logan, Utah

*Bonneville Microelectronics start-up to commercialize products from center research

*Center heavily involved helping move a branch of IBM, Philips or Hewlett Packard to Utah

*Ceramatec, Beta Power Inc. and Edo Western are successful small high tech ceramics firms

*Commercial sales of the Tripos "Sybil" stimulation program ($24,000) include Hercules BASF and B.F. Goodrich