

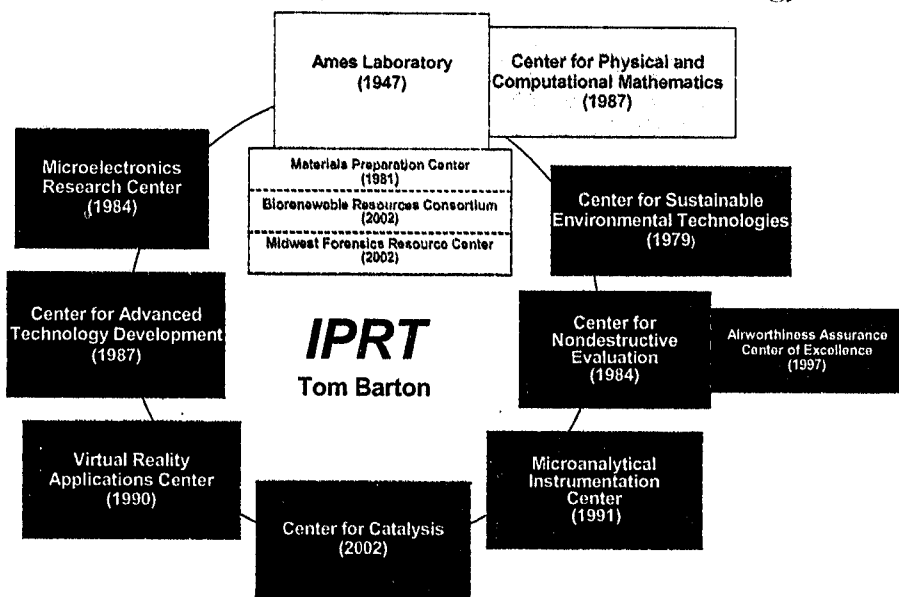
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Iowa State University*

**An Integral Part of ISU's Engine for
Iowa's Economic Development**

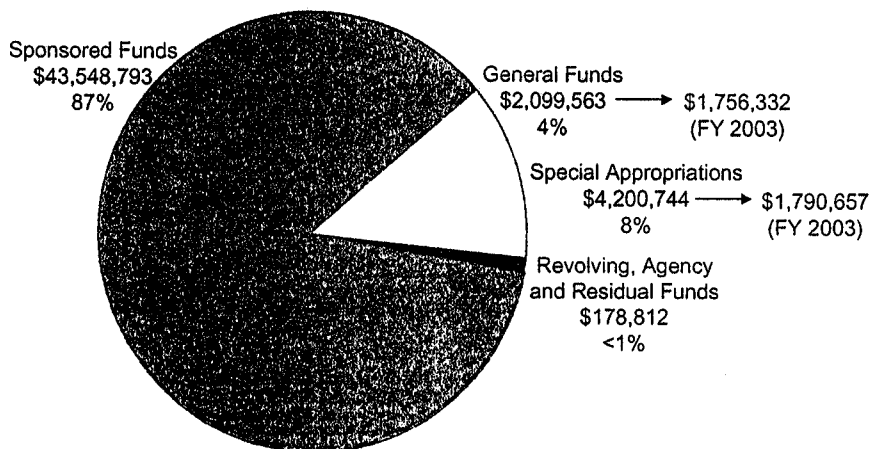
January 30, 2003

Tom Barton

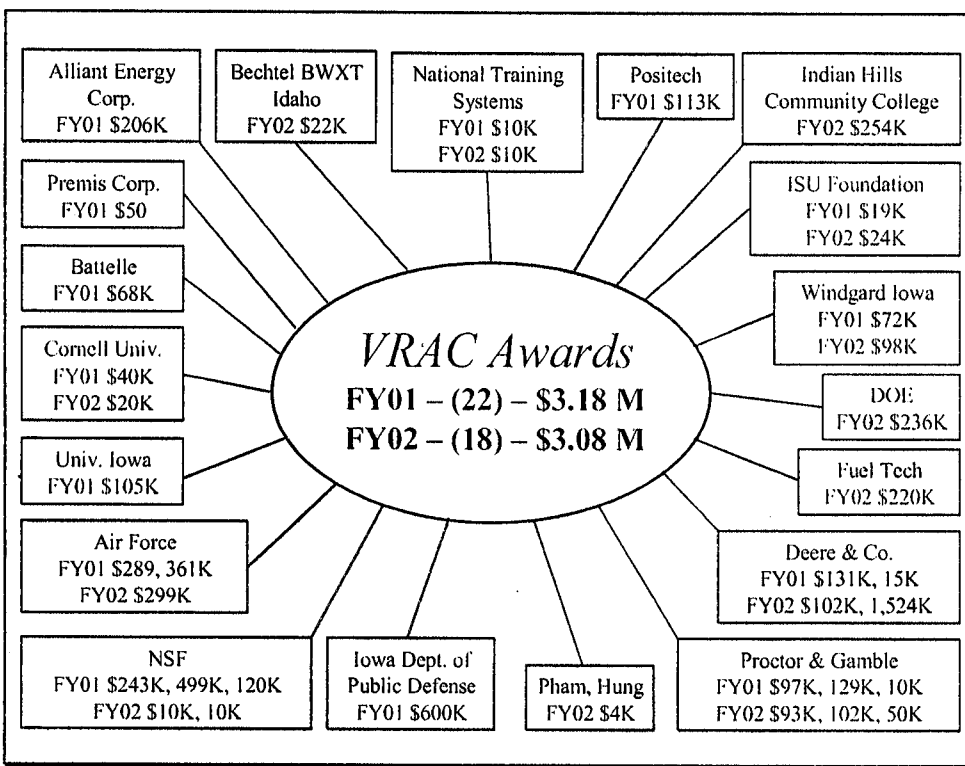
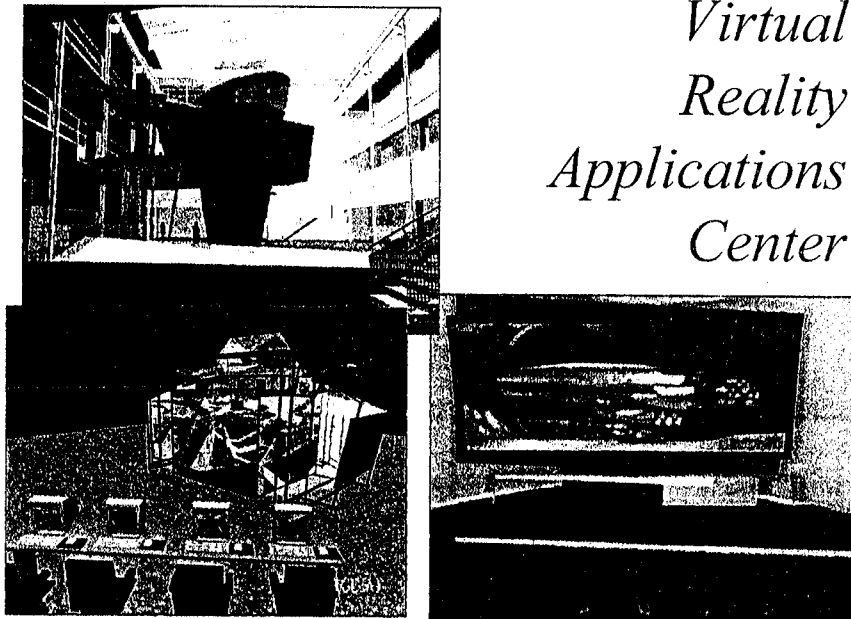
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Total IPRT Expenditures: FY 2002



Virtual Reality Applications Center



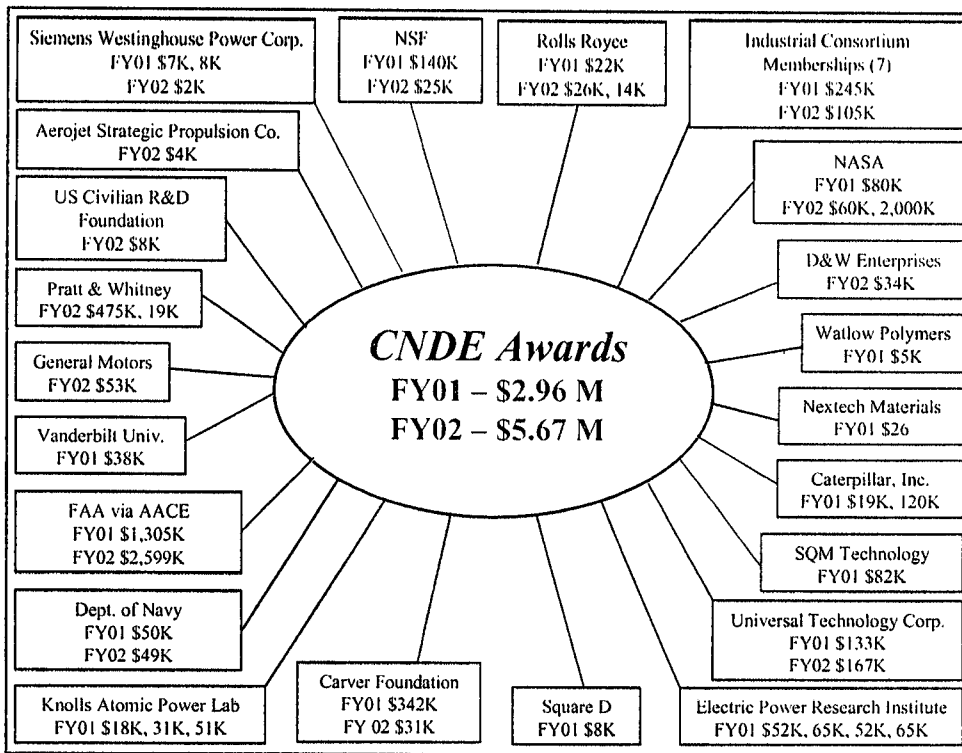
VRAC Spin-off Companies

MechDyne Corporation

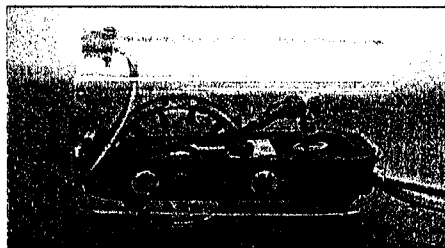
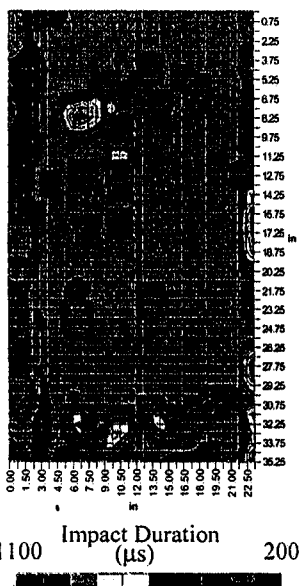
- Builds VR equipment like ours
- Ca. \$15 million gross
- Employees – 40
- ISU grads – 12
- CEO and 3 VP from ISU
- Nov. 2002 – Merger Announced with Fakespace (Ontario)

Engineering Animation

- Communication software
- \$85 million gross
- Employees in Iowa – 250
- ISU grads – 130
- 2 VP from ISU



CNDE's Computer Aided Tap Tester



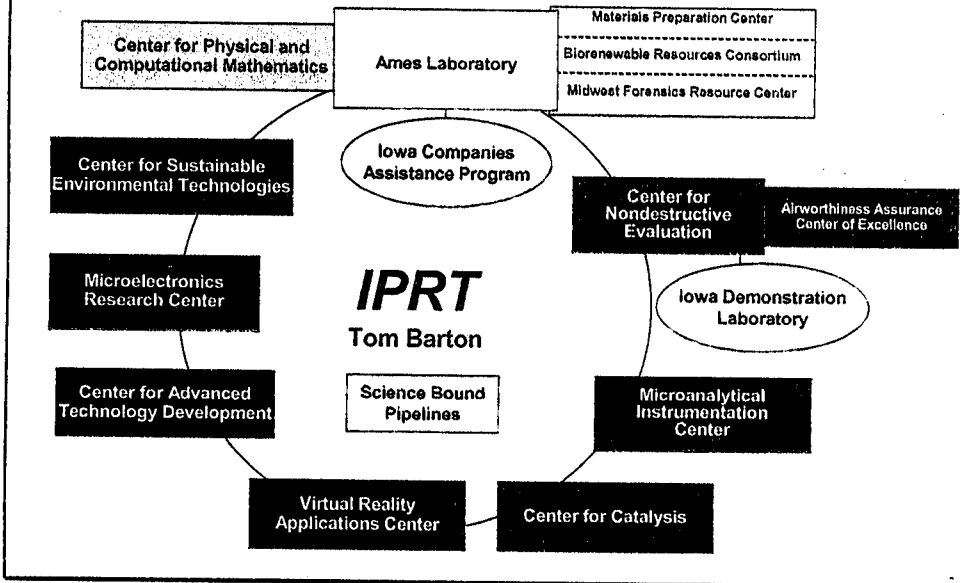
Inspecting Heater Blanket on the Left Wing of an MD-80

Center for Nondestructive Evaluation Technology Transfer

Advanced Structural Imaging, a start-up company, builds and markets computer-aided tap testers used to inspect composite structures such as those in aircraft. The technology was developed by scientists at CNDE.

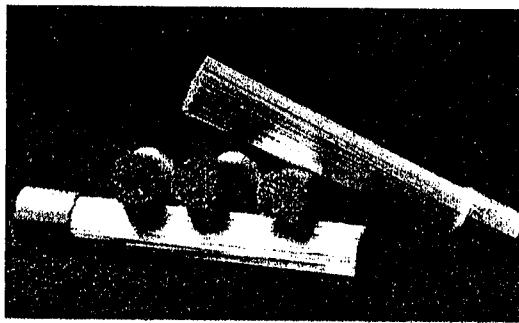


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IPRT Company Assistance

ICAP helped Pipeline Cleaners, Inc., Ft. Madison, evaluate and improve solder joints in a new brush, exceeding customer requirements.



IPRT Technical Assistance



IDL used ultrasonic testing to isolate performance degradation in laminated nickel transducers for Bluewave Ultrasonics of Davenport, Iowa.

IPRT Company Assistance



CATD helped Consumer Safety Technology, Inc., Clive, a maker of breath-alcohol ignition devices by teaming ISU chemists and a Univ. of Iowa fuel cell expert to set up a process for making reliable fuel cells at ca. 50% of the cost of commercial units.

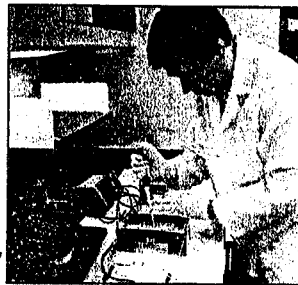


ViraQuest, Inc.
Adenoviral vectors for gene research

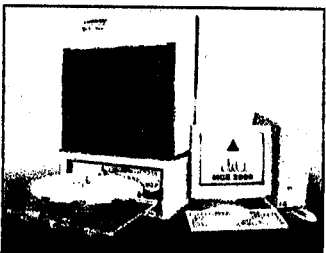
IPRT Start-Up Assistance



Viabte Technologies, Inc.
Superabrasive alloy "BAM"



Phytodyne, Inc.
Plant transformation technology



CombiSep, Inc.
Multiplexed capillary electrophoresis

IPRT Assisted New Start Companies

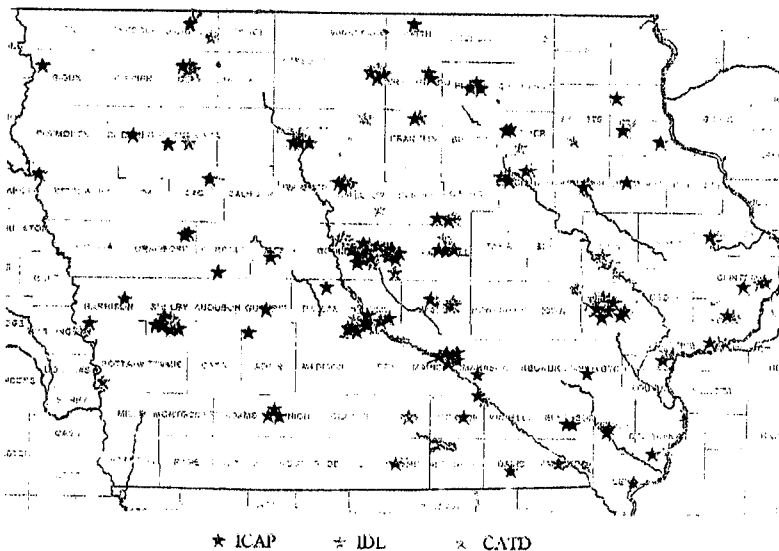
Osteoceramics, Inc.
DAF Enterprises
EnSoft, Inc.
Glass House Studio
Advanced Structural Imaging
NewLink Genetics Corporation
CombiSep, Inc.
Nitro Cream
Innovative Materials Testing Technologies
Phytodyne, Inc.
NDE Technologies, Inc.
Advanced Analytical Technologies, Inc.
Delta Tie
Engineering Analysis, Inc.
Engineering Manufacturing, Inc. (EMI)
Carbon Energy Technology (CETECH)
MechDyne Corporation
Vista R & D
NewMonics, Inc.
Palisade Systems, Inc.

Bioforce Laboratory
8VA Corporation
Potter Solar Services
Adaptation, Inc.
Engineering Animation, Inc.
Metabolic Technologies, Inc.
ETREMA Products, Inc.
Iowa Thin Film Technologies, Inc.
MTEC Photoacoustics, Inc.
Amtak, Inc.
Arete Software Company
Pioneer Precision Coatings, Inc.
Full Spectrum
Ames Specialty Metals
Edge Materials, Inc.
MASIM, Inc.
Pelltronics
Anaerobic Biosystems Corporation
Intelligence, Inc.

Selected Performance Measures Summary

Iowa Company Assistance Projects (FY 98-02) (ICAP, IDL, CATD + Centers) (870 + 208)	1,078
Research Centers (FY 98-02) Research Contracts	656
SBIR/STTR Program FY 02 Companies Assisted	277
12 Awards	\$4.23M
IPRT Assisted New Starts Five Year	12
Since 1984	39

Areas of the State Served by the IPRT Outreach Programs FY 2002



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<http://www.iprt.iastate.edu>