Multinationals in Israel
High-Tech R&D and Manufacturing

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Vital Statistics

- Faculty members: 45
- Technical & Administrative Staff: 78
- Students: > 2000
  - Undergraduate students: > 1550
    - 260 in EE-Physics Program (dual degree)
    - 320 in Computer & Software Eng. + EE-CS Tracks
  - Graduate students: 362
    - 74 PhD (54 full-time)
    - 288 MSc (81 full-time)
- Research centers: 10
  - Laboratories: 19
Activity Areas In Research & Education

- **Electronics**
  - Electronic devices
  - MEMS
  - OptoElectronics
  - Electrooptics
  - Electrodynamics
  - Organic Electronics
  - Microelectronics
  - Nanoelectronics
  - Advanced Circuits
  - Solar cells

- **Computer Engineering**
  - Networking
  - Parallel Systems
  - Distributed Systems
  - VLSI
  - Computer Vision
  - Software
  - Multi-core
  - Network on Chip
  - Cloud computing

- **Comm. & Information**
  - Wireless, satellite
  - Information Theory
  - Signal Processing
  - Wave Propagation
  - Control & Robotics
  - Machine Learning
  - Biological Nets
Relationship with High-tech Industry

A Multi-faceted Relationship

- Student Projects
- Research funding
  - Direct funding
  - Government programs (Consortia)
- Infrastructure support
- Teaching and joint graduate-student supervision
- Research collaboration
- Industrial Liaison Program
CCIT – Center for Communications and Information Technologies

Industrial Liaison Program

Dr. Yael Ilan
Manager, ILP
Industrial Liaison Program

Mission

• Induce cooperation and information flow between the academic research staff and the high-tech industry.
• Provide technological depth to Industry and produce a competitive edge in global markets.
• Supports the mutual needs of industry and academia in development and education.
• Provides mechanisms for technical exchange, research collaboration and access to students.
• Provides us some extra funding.
Industrial Liaison Program

Activities

• Industrial Advisory Committee.
• Workshops, seminars and special lectures.
• Enhancement of Managerial Education
• Special Projects
Multinationals in Israel
Scientific Potential

- 7 universities and research institutes
- 800 research projects
- 113,000 students in universities and scientific institutes
- 18,000 Scientific studies
- 8,000 Medical and Para Medic studies
- High level Israeli scientists in the U.S. are looking for come back to Israel
Highly motivated
Entrepreneurial culture
Informal communication
Strong team work
Innovative & Creative + resourceful!
Multi disciplinary
Loyalty & dedication
Highlights in Israeli Innovation

- Pentium and Centrino (Intel)
- Call Center Logging (Nice/Verint)
- Voice Mail (Comverse)
- PC Board Inspection (Orbotech)
- Two-bit per cell Flash Memory (Saifun)
- Disk on Key (M-systems)
- Firewall (Checkpoint)
- Virtual Colonoscopy (Given Imaging)
Multinationals in Israel: History and Flavors

• First major ones in the mid 1970s
• Reasons/purposes:
  – Retain a key Israeli contributor who chose to return home.
  – Gain access to local R&D talent.
  – Benefit from “Israeli thinking”
  – Following acquisitions of an Israeli company.
  – Less expensive workforce.
  – Combinations of the above
• Avenues:
  – Start small (usually research)
  – Acquire and take it on from there
Foreign Subsidiaries in Israel
(partial list)

- Intel
- Microsoft
- IBM
- Sun Micro systems
- CA
- EDS
- BMC
- Cisco
- 3 Com
- HP
- Texas Instruments
- National S.C
- Alcatel
- Philips
- Ericsson
- Nokia
- Marvel
- ST Microelectronics
- Infineon
- Analog Devices
- Vishay
- AVX (Kyocera)
- General Electric
- Philips Medical
- Medtronics
- Boston Scientific
- Motorola
- Lucent Technologies
- Avaya
- Nortel
- Siemens
- ADC
- Qualcomm
- Applied Materials
- KLA - Tencor
- Kulicke & Soffa
- Bio-Rad
- BAE Systems Ind.
- Astronautics
- Sigma
- Invitrogen
- J&J
- Merck
- Deutsche Telekom
- British Telecom
- Daimler Chrysler
Haifa: all in one…
Local / Global Perspective: Email Address

Mission

- Some companies: name@original_company.com or .co.il
- Intel, Microsoft, others: name@multinational.com
- IBM: name@il.ibm.com
Thank you!