

Department of Mechanical Engineering
Carnegie Mellon University
Pittsburgh, PA

Head:

Professor Yoed Rabin

Email: Rabin@cmu.edu

Phone/Fax: (412) 268 2204

Office: Scaife Hall 321 ([Campus Map](#))

Lab: Hamerschlag Hall B301D

[Thermal fluids education](#)

[Personal information](#)

[Selected publications](#)

Research:

- [Computerized training tools for cryosurgery](#)
- [Wireless implantable temperature sensors](#)
- [Computerized planning of cryosurgery](#)
- [Experimental verification of bioheat transfer simulations](#)
- Ultrasound image reconstruction
- [Fracture formation around a cryosurgical probe](#)
- [Thermo-mechanical stress in cryopreservation](#)
- [Cryomacroscopy of vitrification and fracture formation](#)
- [Cryomacroscopy of fracture formation in vitrified thin films of cryoprotectants](#)
- Hyperthermia using nanoparticles
- Microfluidics techniques in cryopreservation

Current Research Associates:

- [Prof. Kenji Shimada](#) (Carnegie Mellon University)
- [Prof. Garry Fedder](#) (Carnegie Mellon University)
- [Prof. Jeyanandh Paramesh](#) (Carnegie Mellon University)
- [Dr. Michael Taylor](#) (Cell and Tissues Systems, Inc.)
- [Prof. Paul Steif](#) (Carnegie Mellon University)
- [Prof. Aaron Fenster](#) (Robarts Research Institute)
- [Dr. Ralph Miller](#) (Allegheny General Hospital)
- [Dr. Joel B. Nelson](#) (University of Pittsburgh Medical Center)
- [Dr. Stephen V. Jackman](#) (University of Pittsburgh Medical Center)
- [Dr. Mitchell E. Tublin](#) (University of Pittsburgh Medical Center)