Software Tools for Environmental Field Study (STEFs) is an MIT/Microsoft I-Campus initiative to develop an electronic field notebook for data collection on mobile computing platforms. Led by a student-run organization, ENVIT Student Group, the project includes integration with the environmental science curriculum, as well as field deployment and testing of the prototype. Advanced technologies for mobile computing and environmental sensing will also be integrated into the electronic journal. [http://web.mit.edu/envit/www](http://web.mit.edu/envit/www)

Project Objectives:
- Develop ENVIT-Note, an environmental data collection software for mobile PocketPC.
- Integrate mobile mapping (GIS), geopositioning (GPS) and environmental sensors.
- Offer software and prototype development experience to MIT undergraduates through seminar.
- Field test prototype through an organized field expedition.

**Technology:**
- Windows CE 3.0 VB/C++
- MS Access
- Compaq I-PAQ
- Teletype GPS
- ESRI ArcPad GIS
- HydroLab Water Probe

**Support and Sponsors:**

**Academic**
- MIT CEE Department
- Parsons Lab
- MIT PEEER Program

**Corporate**
- Microsoft Corp.
- ESRI, Inc.
- HydroLab, Corp.

**Education and Research:**
- Undergraduate Seminar
- IAP Field Trip to AUS
- M.Eng Projects
- Water Quality and Flow
- Watershed Management
- Hydrology Models and GIS

**ENVIT Team at MIT:**
- Enrique Vivoni: President
- Richard Camilli: Vice-President
- Mario Rodriguez: Alumni Liaison
- Matt Van Horne: Undergrad Liaison
- Daniel Sheehan: Advisory Board
- Sheila Frankel: Advisory Board
- Dara Entekhabi: Faculty Supervisor

**Water Quality Sampling at Murray-Darling River, Australia**

**Accurate and efficient geolocation and environmental data gathering through GIS/GPS/sensor technology**