

# Software Development and Maintenance

Bill Oakley & Brian Eyster  
(CADSWES)

# Development Environment

- Tools
  - Compilers
  - CVS (version control system)
  - Gnats (bug tracking system)
  - Internal tools
    - Regression tests
    - Build tools

# Windows Development Environment

- Windows development environment
  - Most developers now use both platforms
    - Cheaper, faster
    - Reflects user platforms
  - Standardized setup
  - Custom tools
    - Move code between platforms
  - Extensive internal documents

# Development Process

- Development Steps
  - Design
    - Requirements, analysis, and design documents
    - Design review meetings
  - Write code
    - Conform to internal standards
  - Peer code review
  - Purify (memory analysis tool)
  - Functional Testing

# Software Maintenance

- Bug fixes
  - Gnats bug tracking system
- Third-party libraries
  - Upgrade and monitor releases
  - Qt migration

# Software Maintenance

- Internal tools
  - Regression tests
  - Build tools
- License tools
- Release process