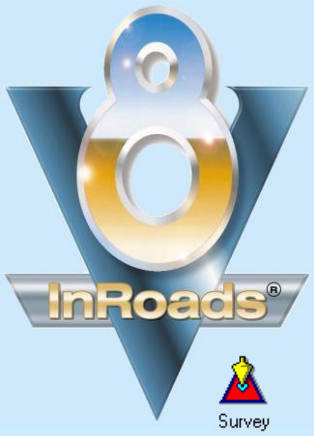
Welcome
to the
InRoads® SURVEY V8i Basics Class



by Mark S. Ditko

© 2011 Zen Engineering

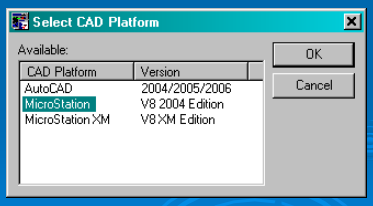
Introduction - Objectives

- Starting InRoads Survey
- The InRoads Survey interface
- Accessing the Tools and commands
- Survey Options
- Project Defaults
- A bit about user preferences
- Exiting the software

© 2011 Zen Engineering

Before Starting InRoads

- Start In-Survey by double-clicking on Survey shortcut
- But first ...select the CAD Platform
  - If more than one is installed
- Once the CAD platform is locked in, that's which one launches when Survey is started



© 2011 Zen Engineering

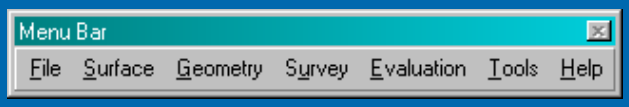
Starting In-Survey

- Start In-Survey directly by either:
  - Double-clicking on the Survey shortcut icon on the Desktop, or
  - Going to *Start* > *Programs* > *Bentley* > *InRoads Survey*
- This will load the Defaulted CAD package as well as Survey
- Or, start MicroStation / AutoCAD by double-clicking on the CAD shortcut then ...

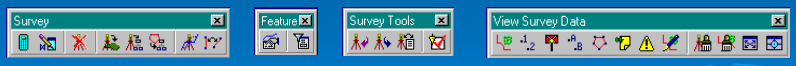
© 2011 Zen Engineering

Commands

- Commands for Survey can either be selected from the Main menu



- … or the Toolbars.

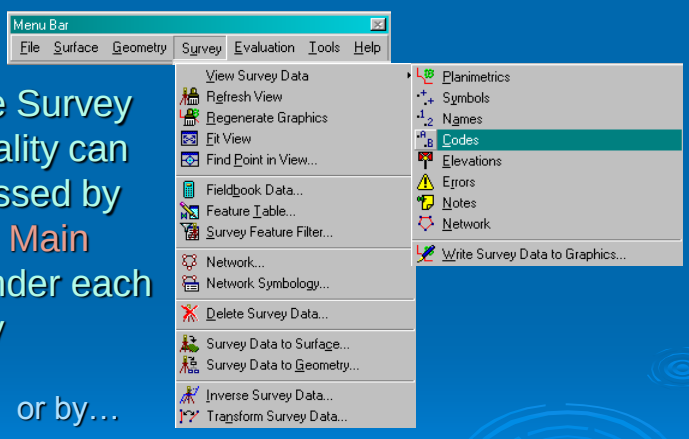


© 2011 Zen Engineering

Survey Main Menu

- All of the Survey functionality can be accessed by from the Main Menu under each category

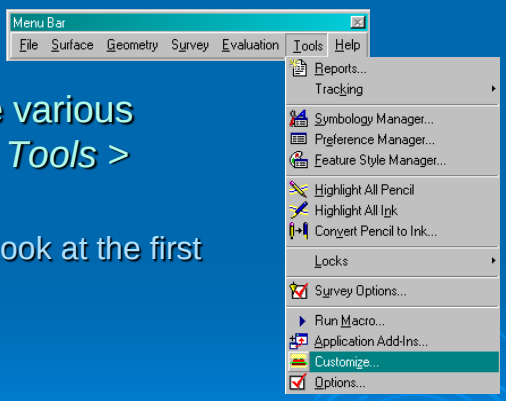
or by…



© 2011 Zen Engineering

Accessing the Functionality

Toolbars

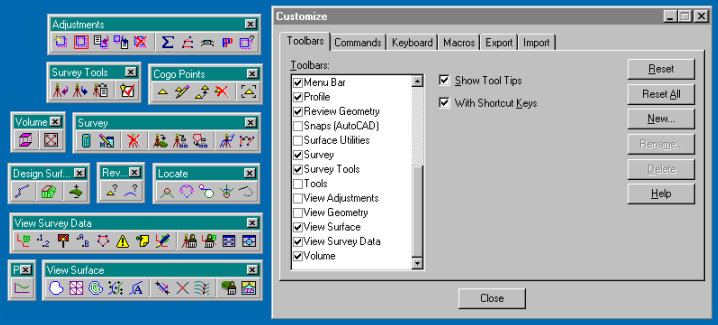


- Pulling out the various toolbars under *Tools* > *Customize*
  - Go there and look at the first tab…

© 2011 Zen Engineering

Accessing the Functionality

Toolbars



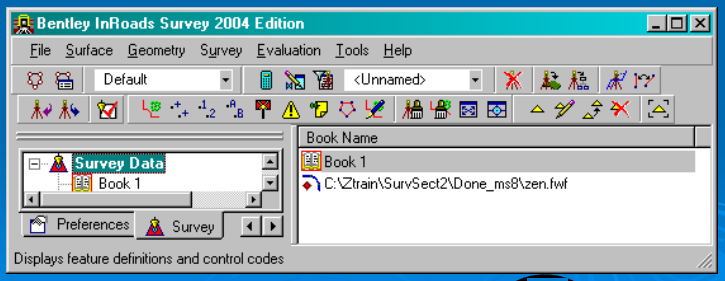
- Toggle on the Toolbars that contain frequently accessed tools

© 2011 Zen Engineering

Accessing the Functionality

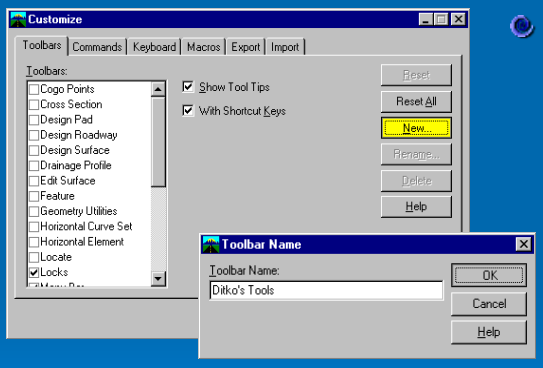
Docking

- The first time toolbars are toggled on they embed themselves into the In-Survey interface
- Reposition the toolbars where you want them



© 2011 Zen Engineering

Customized Toolbars

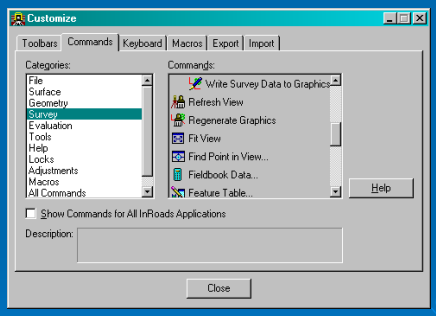


- Create your own Custom Toolbars
  - *Tools>Customize*;
  - Toolbar Tab
  - Select *New…*
  - Key-in the *Toolbar Name*
  - Find the empty Toolbar
  - And then…

© 2011 Zen Engineering

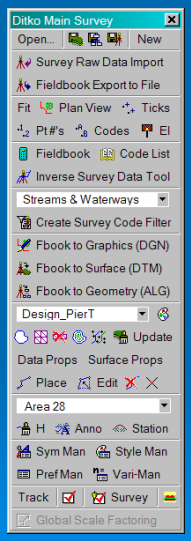
Customized Tool Palettes

- Go to the *Commands* Tab;
- Select a *Category*;
- Drag and Drop a command into the new Toolbar.
- Build your Toolbar with the commands that you need.

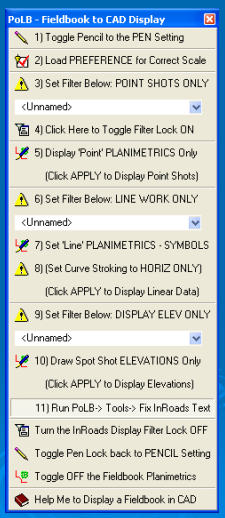


© 2011 Zen Engineering

Customized Tool Palettes

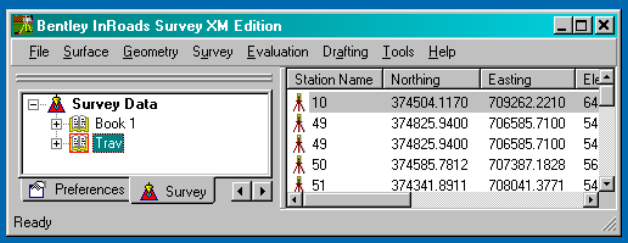


- Create any toolbars that you like.
- Export as a **.TBR** file
- Import **.TBR** files created by others
- Open & Close them when needed.
- Resize & dock them just like other toolbars



© 2011 Zen Engineering

The In-Survey Interface

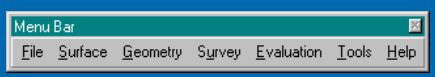


- 3 Parts of the InRoads Survey Interface:
  - **Main Menu Bar** - Dropdown menus
  - **Workspace Bar** - InRoads Project Data Explorer
  - **Feedback Pane** - Presents Project Details

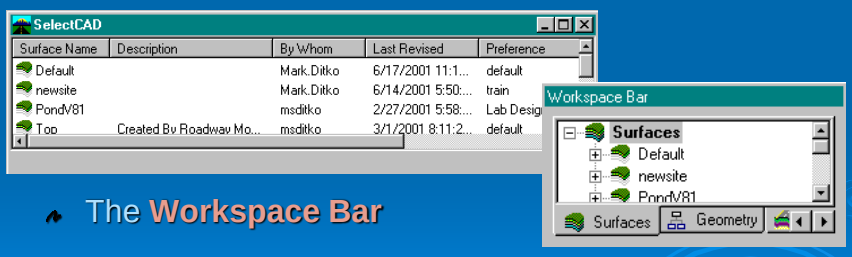
© 2011 Zen Engineering

The In-Survey Interface

- The Civil menu really does have 3 parts to it.
  - The **Main Menu Bar**



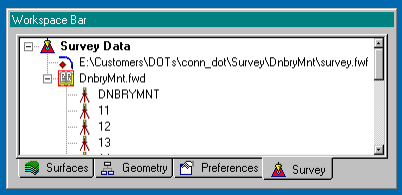
  - The **Feedback Pane**



  - The **Workspace Bar**
- Normally these are attached but they don't have to be

© 2011 Zen Engineering

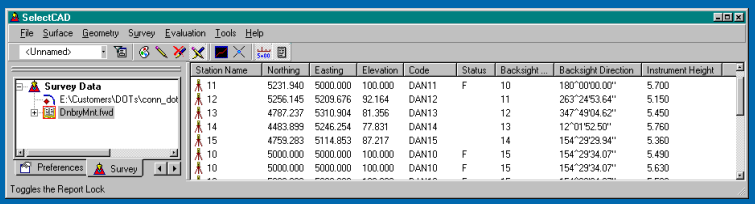
The Workspace Bar



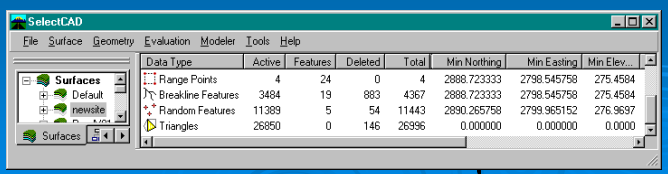
- The *Workspace Bar* allows you to explore the various types of project data that is loaded
- Selecting a particular data type on the *Workspace Bar* shows you what information is currently loaded into memory
  - This is your 'window' into what data is opened

© 2011 Zen Engineering

The Feedback Pane

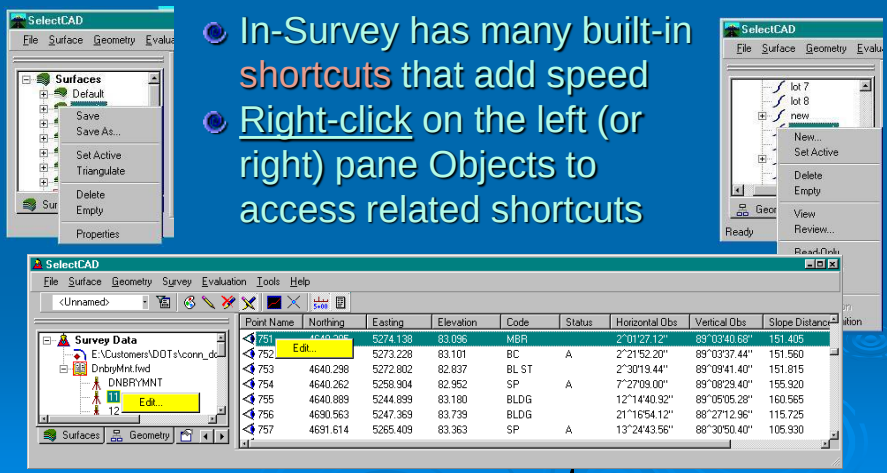


- Select left pane objects to view right pane details
- 'Explore' this viewing capability further as data is loaded & created throughout the class



© 2011 Zen Engineering

Command Shortcuts



- In-Survey has many built-in shortcuts that add speed
- Right-click on the left (or right) pane Objects to access related shortcuts

© 2011 Zen Engineering

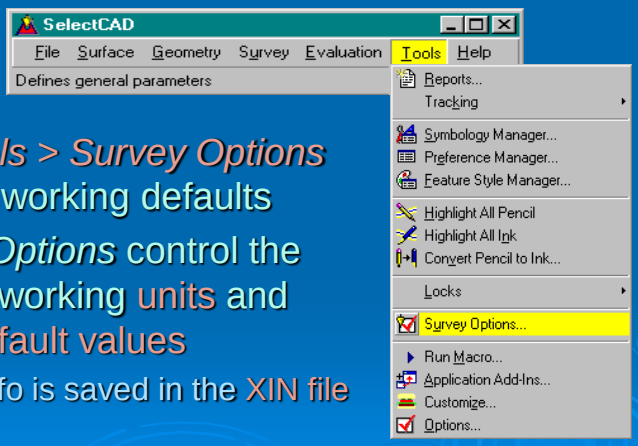
General Survey V8 Software Note

- 'Survey' has it's own controls for setup *Options* & *View* display (similar to how it existed previously in Fieldworks)
- In-Survey has evolved to include key InRoads functionality useful to a Survey department
- The 'InRoads' functionality uses different *Options* and display settings
  - Those familiar with earlier versions of Survey and Civil software (InRoads, Site, … etc) will see the distinction between working with Survey vs InRoads functionality.

… stay tuned for more on this later

© 2011 Zen Engineering

User Defined Survey Settings

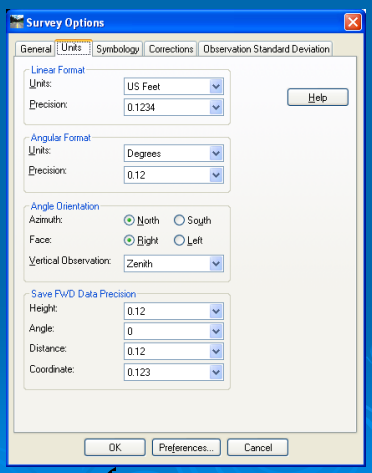


- The *Tools > Survey Options* sets the working defaults
- *Survey Options* control the display, working units and other default values
  - This info is saved in the XIN file

© 2011 Zen Engineering

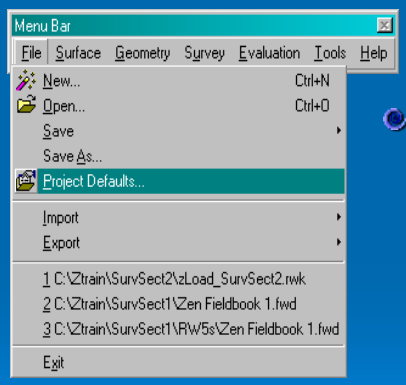
Survey Units & Other Settings

- Units should be correctly set per job
- Survey Options also define:
  - Corrections
  - Certain Symbologies
  - Planimetric Scales & other general settings
  - Adjustment Criteria



© 2011 Zen Engineering

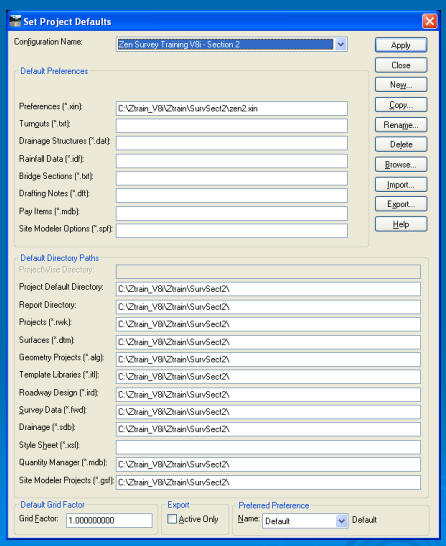
In-Survey File Paths



- *In-Survey > File > Project Defaults…* configure the default paths that In-Survey will use.

© 2011 Zen Engineering

Project Defaults

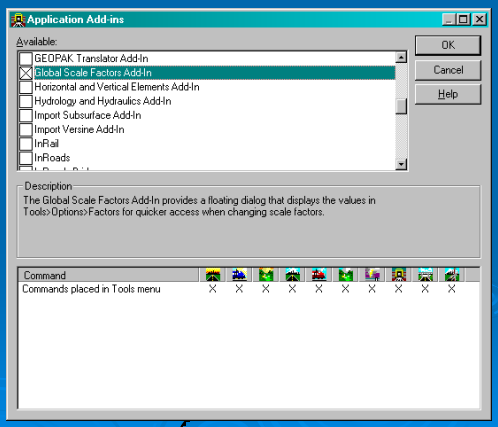


- *File > Project Defaults* establish ‘project’ specific files & paths
- Upper settings load physical files
- Lower setting lock in data paths only
- ‘**Close**’ on a specific ‘Config Name’ will activate those settings.

© 2011 Zen Engineering

Application Add-ins

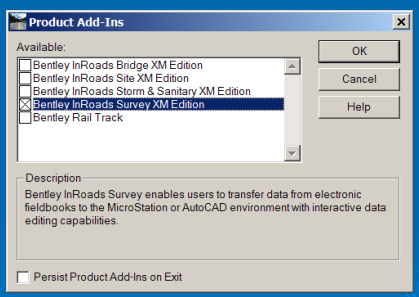
- *Tools>Application Add-ins*
- Add-ins are special tools that may be available
- Explore and switch on anything useful



© 2011 Zen Engineering

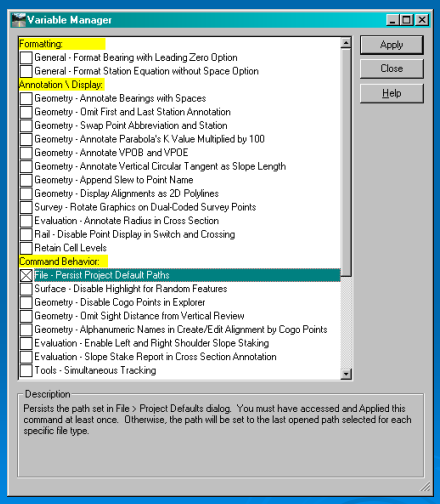
Product Add-ins

- *Tools> Product Add-ins*
- Apps like Survey, S&S, … etc, can act as Add-ins to the s/w currently running
- ***Persist*** option in the lower left corner



© 2011 Zen Engineering

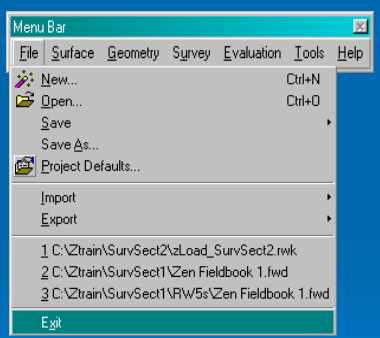
Variable Manager



- This is a Special Application Add-in
- Variable Options
  - Formatting
  - Annotation \ Display
  - Command Behavior
  - Customer Specific
- Be aware of these new optional settings

© 2011 Zen Engineering

Exiting InRoads Survey



- Exit In-Survey just the way that you would in most other programs
- Exit Survey & stay in the CAD platform, or
- Exit both by closing out of the CAD platform

© 2011 Zen Engineering

Introduction - Summary

- Either start In-Survey directly, or start CAD and then load InRoads as an *Application*
- Get to the functionality of Survey by using either the pull down menus, or going to *In-Survey* > *Tools* > *Customize…* and the provided tool palettes, the many shortcuts, or by creating your own Custom Toolbars.
- Left / Right pane allows you to view & edit selected data
- Survey Options can set and store the setting for displays, units and other defaults for In-Survey
- Set up Project Defaults for Job1, 2, 3, … etc
- Exit both the CAD package & Survey, or Survey only

© 2011 Zen Engineering

Lab 2.1 – Getting Started

- Start InRoads Survey
- Establish some default startup settings
- Create a Project Default 'project'
- Save those settings
- Exit InRoads Survey

  - Start on page 100

© 2011 Zen Engineering