

See Your Design Differently

John A Frampton
Product Manager MicroStation, PowerDraft and View



John Frampton – *Product Manager*

- Located in western Pennsylvania
- Bentley employee for over 12 years
- Over twenty years of design/CADD experience using and supporting Bentley, Intergraph, and Autodesk products.
- CADD manager for a very large engineering firm in Pennsylvania
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MicroStation

An unrivaled information modeling environment for architecture, engineering, construction, and operations for all infrastructure types...







...that can be used as both a **software application** and as a **technology platform** for discipline-specific applications.



MicroStation

Immersive Interaction



Comprehensive Breadth and Depth

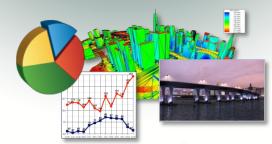


Information Modeling



Trusted Deliverables

Performance Simulation





MicroStation V8i Enhancements to Date





Comprehensive Breadth and Depth

Geospatial Referencing

V8i

V8i

Rhino 3DM

i-models

SELECTseries 1

ESRI SHP Files

SELECTseries 1

RealDWG 2009, 2010

SELECTseries 1 and 2

Point Clouds

SELECTseries 2

















Performance Simulation

- Intuitive modeling tools
- GenerativeComponents Extension
- Dynamic views
- Mark up manager
- Clash detection
- Schedule simulation

V8i

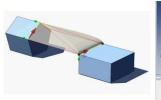
V8i, SELECTseries 1 and 2

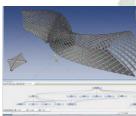
V8i, SELECTseries 1 and 2

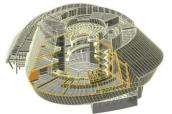
SELECTseries 1

SELECTseries 2

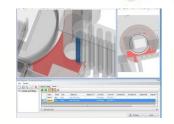
SELECTseries 2

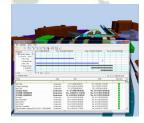




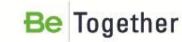












Trusted Deliverables

- Luxology rendering and animation
- Print organizer
- i-models
- 3D printing
- Geospatial PDF

V8i, SELECTseries 1 and 2

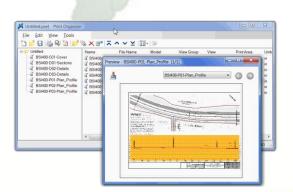
V8i, SELECTseries 1 and 2

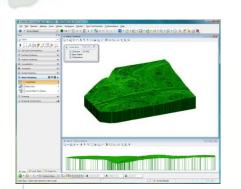
SELECTseries 1

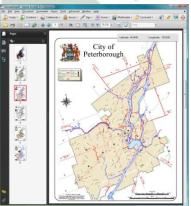
SELECTseries 1

SELECTseries 1









Agenda

- Element Templates
 - Terrain extender
- Display styles
- Thematic Display Styles
- Demonstration
- Question and Answer
- Closing



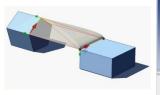
Performance Simulation

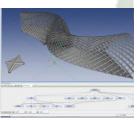
- Element Templates
- Display Styles
- Display Styles Thematic styles

V8i

V8i, SELECTseries 1, 2, and 3

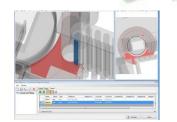
V8i, SELECTseries 3

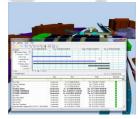












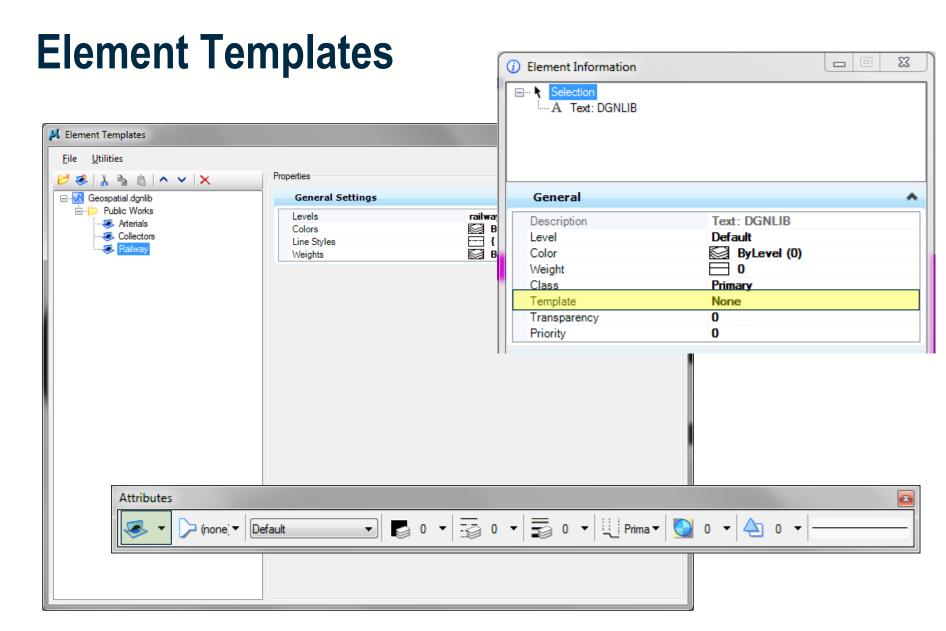




Element Template

- Defines properties of elements
 - Used to set the active settings for <u>element placement</u>
- Should be created and maintained in DGN libraries
 - This allows administrators to create templates in one place and to distribute them to many users
- May be <u>applied to existing elements</u>
- The primary purpose of templates is to increase consistency when drawing.









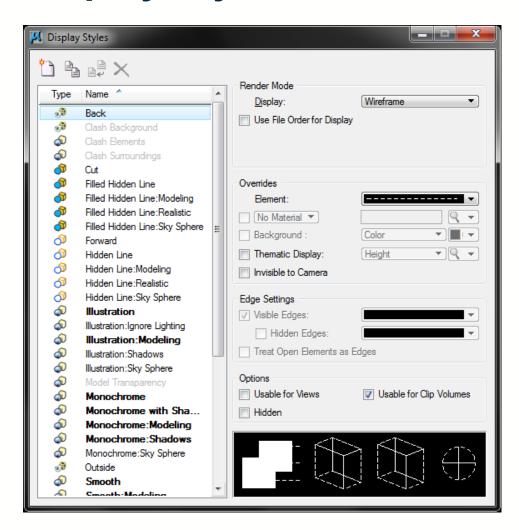
Display Styles

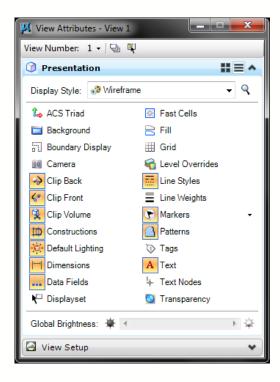
- Predefined collection of render overrides
- Optional settings that can be applied to views, sections, or reference attachments
- Display styles are typically saved as shared resources in DGN libraries, but are copied locally when used





Display Styles





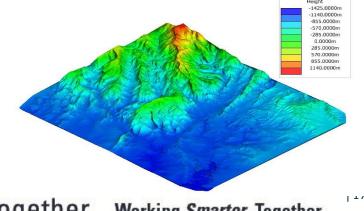






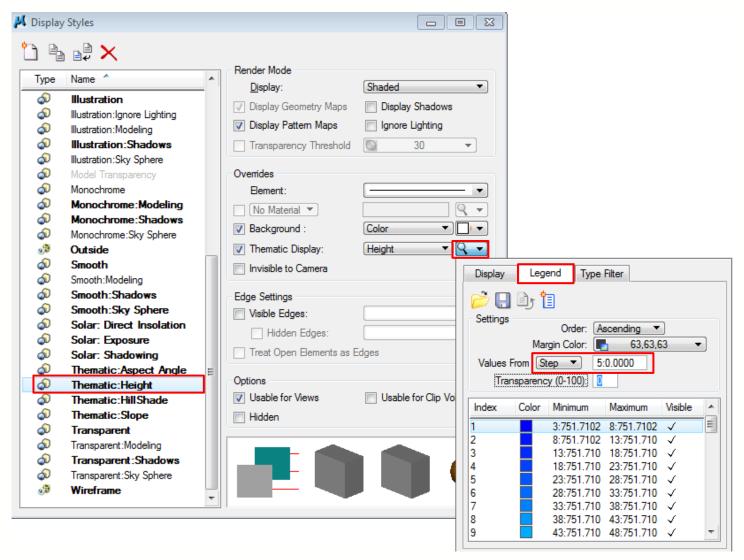
What are Thematic Display Styles?

- Thematic display style:
 - Displays a rendered model with focus on a particular property or 'theme'.
 - Thematic displays are generated by special applications called Display Style **Handlers.** (These handlers can be created by applications to meet discipline specific needs)
 - Thematic options available:
 - Height Color is derived from the height (elevation) of the geometry.
 - Slope Color is derived from either slope angle or percentage (rise/run).
 - Aspect Angle Color is derived from the slope aspect angle. (a measure of the **direction** of the slope)
 - HillShade Reflects the shaded areas from darker to lighter
 - Four thematic display styles are **delivered** with MicroStation V8i by default. You can change their settings in the Display Styles dialog.
 - Display Styles are now delivered in the DrawingSeed.dgnlib file



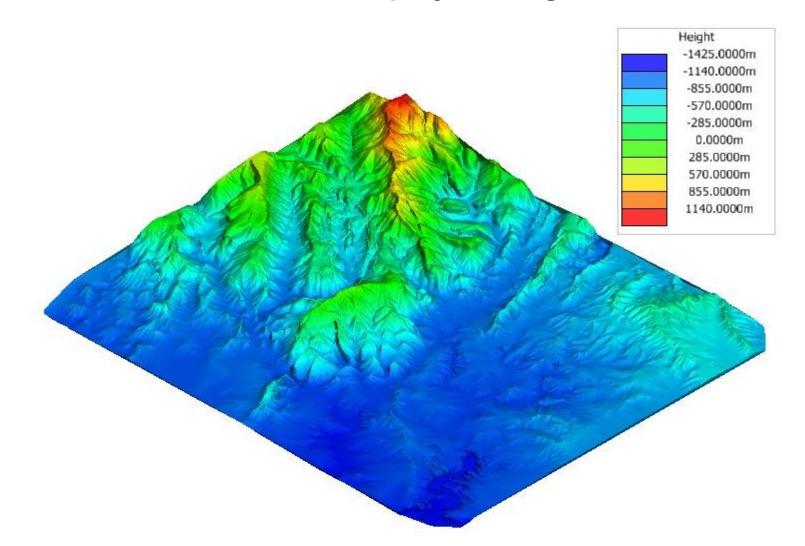


Thematic Displays Modify Display and Legend



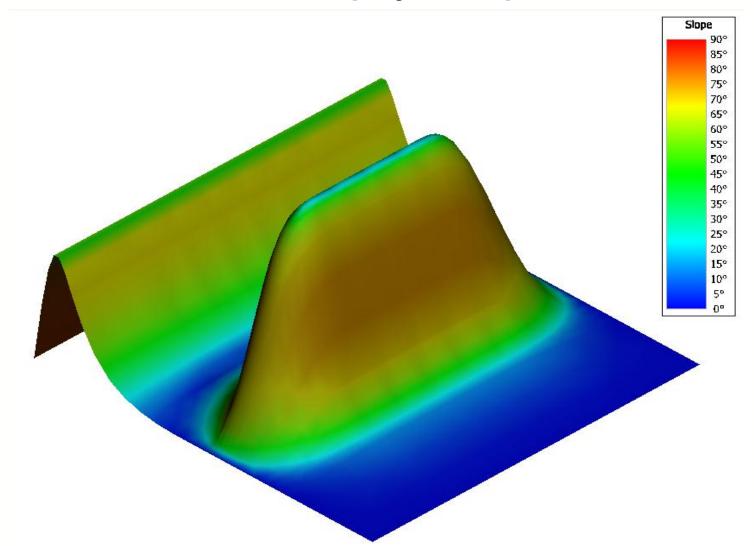


Thematic Displays - Height



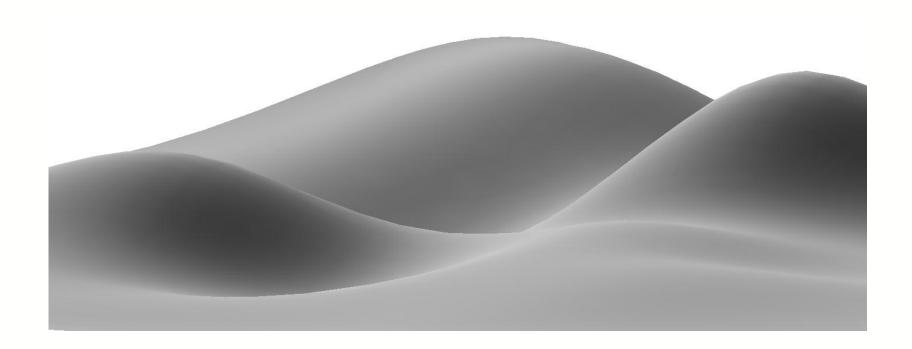


Thematic Displays - Slope





Thematic Displays – Hill Shade









Bentley V8i (SELECTseries 3) – Autodesk ® RealDWG™ 2013 service pack 1.1

- Features include:
 - Supports opening and saving 2013 DWG files
 - Works with many Bentley V8i products *
 - Works with 2013 Autodesk ® Object enablers
 - Suport for AutoPlant and ProStructures Object enablers
 - Contains RealDWG™ 2013 service pack 1.1

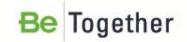




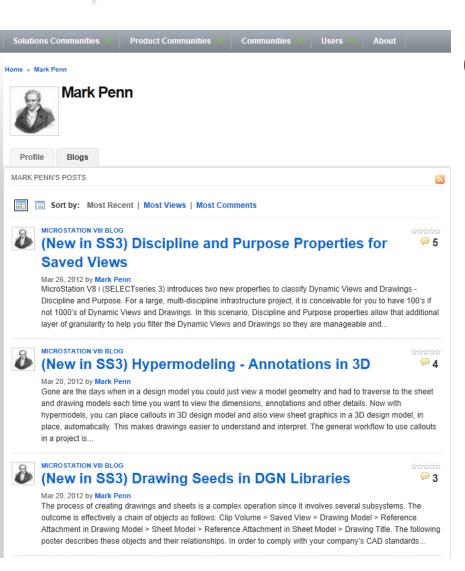
Commercial Releases

- MicroStation SELECTseries 3 update 1 (2012/10)
- PowerDraft SELECTseries 3 update 1 (2012/11)
- Bentley View SELECTseries 3 update 1 (2012/11)





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Project Explorer

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