Scott Balch was born and raised in eastern New Mexico and attended the University of New Mexico in Albuquerque where he received a BS in Civil Engineering. After working for two heavy-highway contractors in the Dallas area he started his own concrete construction business in 1990. While at the helm, North Texas Bomanite, Inc. has established itself as one of the leading installers of decorative concrete in the region. Scott now lives in the Lake Highlands area of Dallas with his wife (Lynda). They have two adult children who also live in the DFW area. An avid upland bird hunter he also enjoys fishing, camping and most outdoor activities.

Presents
Color, Pattern and Texture: A Concrete Surface Design System
an AIA/Continuing Education System Program

Objectives
1. Learn of methods used to manipulate and effect color in concrete
2. Have an understanding of techniques utilized in creating pattern in concrete surfaces.
3. Know of processes used to articulate various textures on concrete surfaces.
4. Be able to integrate the elements of color, pattern and texture into a concrete surface design system.

Four Elements of Artistic Expression

- Color
Four Elements of Artistic Expression

• Color
• Pattern
• Texture
• Shape
Color: Traditional Methods

Colored Cement Concrete
Standard Portland Cement with a Light Tint: Light gray or slight tan.

Special Colored Cement: Normally various shades of tan.

Pigmented Cement: Combines pigment with white portland cement to produce a variety of colors.

New Methods of Coloring Concrete

- Integral Color
  - Color-Conditioning Admixtures
  - Mineral Oxide Pigments
- Color Hardened Concrete
- Antiquing Release Agents
- Chemical Stains
  - Reactive Stains
  - Penetrating Stains
Color, Pattern and Texture: A Concrete Surface Design System

Integral Color Concrete
Color-Conditioning Admixtures

Integral Color Concrete
Color-Conditioning Admixtures

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**Color: New Methods**

- Integral Color Concrete
- Mineral Oxide Pigments

**Integral Color Concrete**
Mineral Oxide Pigments
Color Hardened Concrete

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Color: New Methods
Antiquing Release Agents

Chemical Stains

Reactive Stains
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**Color: New Methods**

### Chemical Stains
- Reactive Stains

### Reactive Stains
- Chemical Stains

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### Chemical Stains
- Reactive Stains

### Reactive Stains
- Chemical Stains

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### Chemical Stains
- Reactive Stains

### Reactive Stains
- Chemical Stains

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### Chemical Stains
- Reactive Stains

### Reactive Stains
- Chemical Stains
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Color: New Methods

Chemical Stains
Reactive Stains
Chemical Stains
Reactive Stains

Chemical Stains
Reactive Stains

Chemical Stains
Reactive Stains

Chemical Stains
Reactive Stains

Chemical Stains
Penetrating Stains

Chemical Stains
Penetrating Stains
Chemical Stains
Penetrating Stains

Other Ways to Affect Concrete Color
- Overlays or Toppings
- Protective Treatments
- Finishing
- Exposed Aggregates

Overlays or Toppings
Overlays or Toppings

Overlays or Toppings

Overlays or Toppings

Overlays or Toppings

Overlays or Toppings

Overlays or Toppings
Overlays or Toppings

Protective Treatments
- Coatings
  - Sealers

Finishing

Exposed Aggregates
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Imprinting

Imprinting

Imprinting

Imprinting
Imprinting

Multiple Colors

Multiple Colors

Multiple Colors
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Color: New Methods

Multiple Colors

Jointing, Sawing and Scoring
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- **Finishing**

- **Exposed Aggregates**
Exposed Aggregates

Formliners

Formliners

Hand Crafted Patterns
Hand Crafted Patterns

Hand Crafted Patterns

Hand Crafted Patterns

Hand Crafted Patterns
Color, Pattern and Texture: A Concrete Surface Design System

Color: New Methods

**Exposed Aggregates**

- **Seeded Method**

- **Washed Method**

- **Mechanical Abrasion Methods**
  - Sandblasting
  - Water Blasting
  - Shotblasting
Exposed Aggregates

Imprinting
Imprinting

Summary

As a result of this course you:
• Learned of methods used to manipulate and affect color in concrete.
• Have an understanding of the techniques utilized in creating pattern in concrete surfaces.
• Know of processes used to articulate various textures on concrete surfaces.
• Can integrate the elements of color, pattern and texture into a concrete surface design system.