


## Technical Session #1 Functions and Types of Subbases, Soil Stabilization and Embankments




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## Subbases, Soil Stabilization and Embankments




- All part of total pavement structure
- Support begins at interface with natural ground (for embankments)
- Higher stiffness (generally) progressing to pavement layers
- Live load disperses as a function of depth

## Embankment



- “Road-carrying structure”
- Typically composed of soil and rock
- Placed and compacted under controlled conditions

## Subbase



- Foundation for subsequent pavement layers above it
- Typically composed of well graded aggregate material
- Placed and compacted under controlled conditions

## Stabilization

- Actions taken to stabilize pavement support layers
- Seeking to improve stiffness of layers
- Soil layers and aggregate layers may benefit from stabilization

## Session #1

- Use of Steel Slag in Geotechnical Applications: Research and Implementation
  - Dr. Monica Prezzi
  - Professor of Civil Engineering
  - Purdue University

## Session #1

- Foundry Sand Use in Geotechnical Projects: Characteristics and Project Examples
  - Mike Lenahan
  - President
  - Resource Recovery Corp.

## Session #1

- Use of Pulp and Paper Byproducts in Soil Stabilization
  - Dr. William Thacker
  - Senior Research Engineer
  - Western Michigan University (NCASI)



**Session #1**

- **Use of Tire Derived Aggregate for Embankments**
  - Dr. Dana Humphrey
  - Dean of Engineering and Professor of Civil Engineering
  - University of Maine