**History Lesson**

Courtesy of American Iron and Steel Institute

**Dry**

**Possible Surface Conditions**

Solid Ice & Water

Solid Ice

Snow & Shush

Dry Snow

Wet

Slush

**WOW!**

Snow/Ice Melting Systems

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**Theory vs Reality**

Snow/Ice Melting Systems

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**Client**

Construct

Control

**5W**

**Expectations**

Performance

Control

**Heat Container**

Construct

**Client Construction Control**

4C

**Heat Container**

Construct
Client

Who are they?
What do they expect?
Where do they expect it?
When do they expect it?
Why do they expect it?
Loads are Location and System Specific

Sometimes Transient Conditions Help Rather Than Hinder Steady State Loads - "Prewarm" of Slab Surface

Back Losses with or without insulation

Client
Establish Expectations

Controls
Climate
Consumption
Btu Release
Production
Btu Generate

Snow/Ice Melting Systems

Ar = 1.0
Ar = 0.0
