

**CPT with a Drill Rig**  
**an efficient transition to an**  
**exciting soil investigation method**

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**April 2011 - Cheyenne, WY**



# The participants

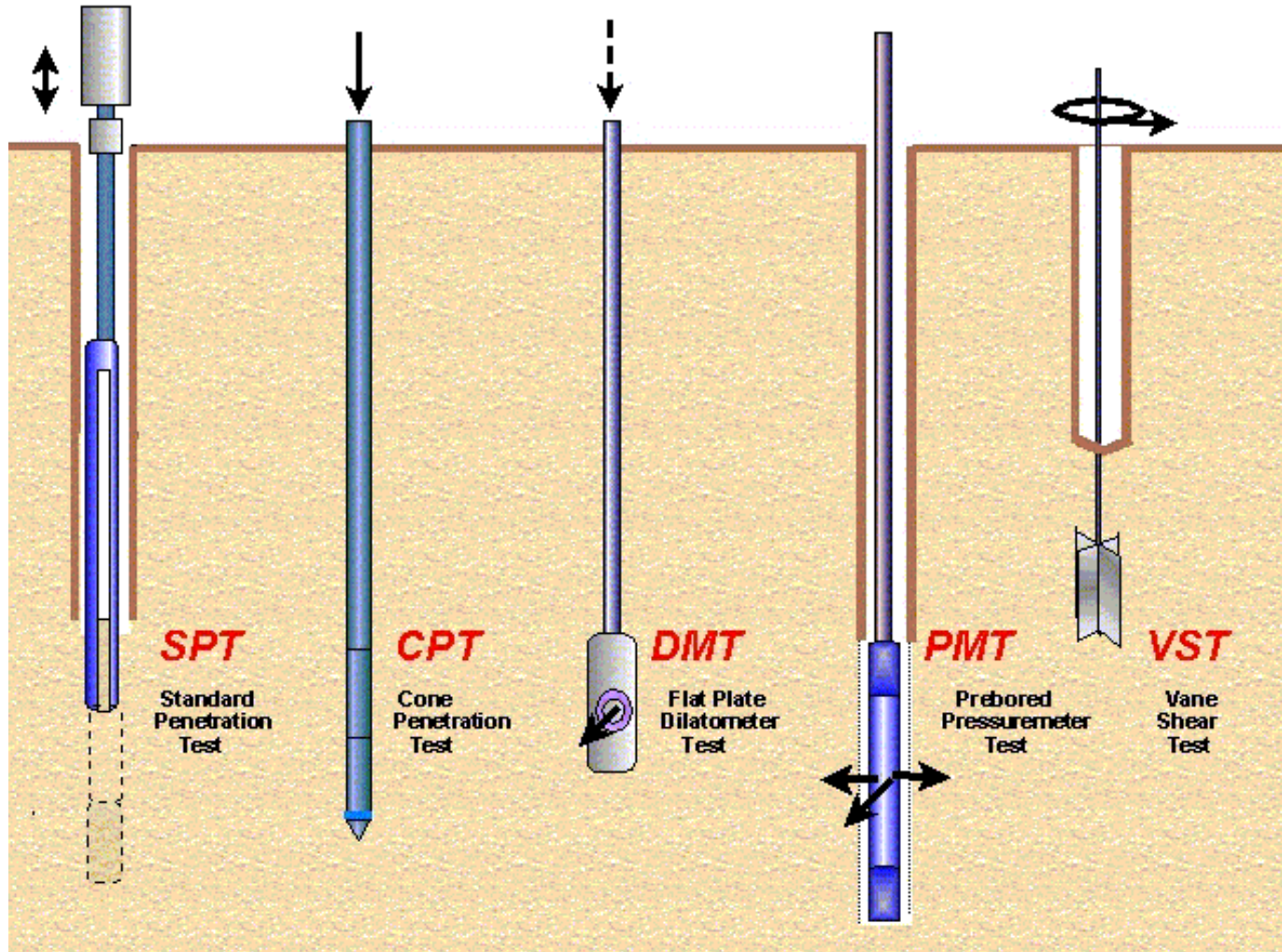


The World trusts our Expertise

# The drillers



# What is CPT



# What is CPT



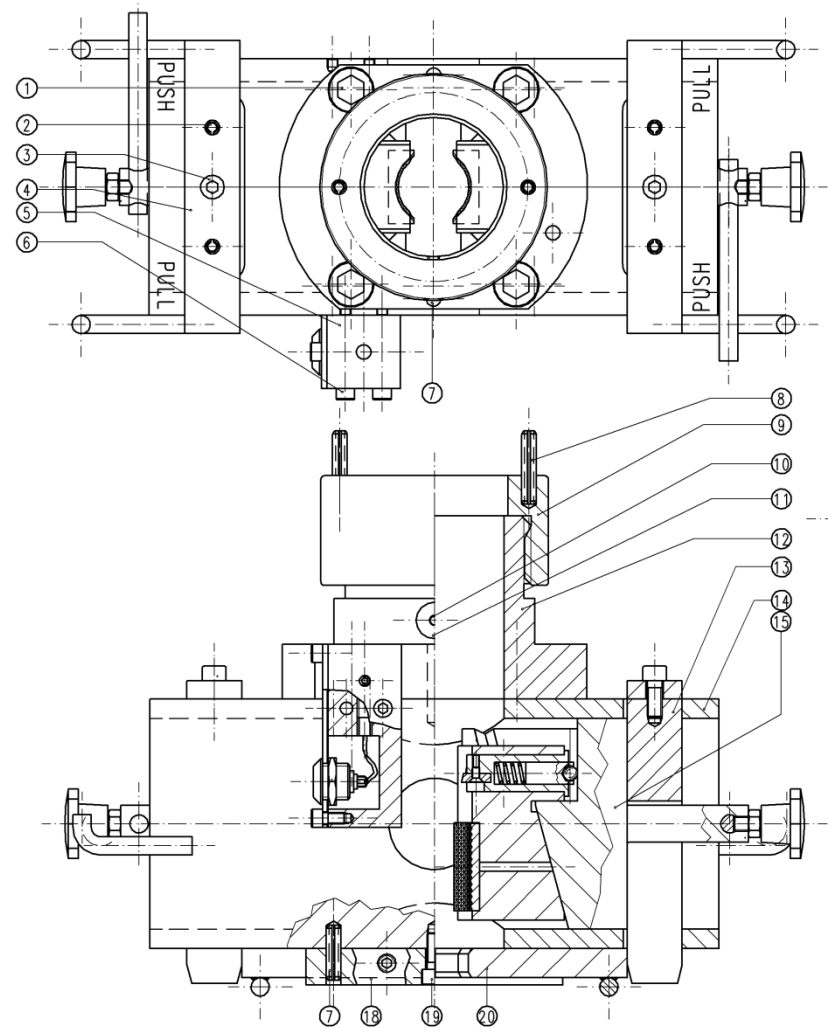
- **Electronic Steel Probes with 60° Apex Tip**
- **ASTM D 5778 Procedures**
- **Hydraulic Push at 0.8 inch/s**
- **No Boring, No Samples, No Cuttings, No Spoil**
- **Continuous readings of stress, friction, pressure**

# How to transition into CPT

- **Use what you have**
- **Buy mainly what you would need anyhow**
- **Get started, others have done it before you**

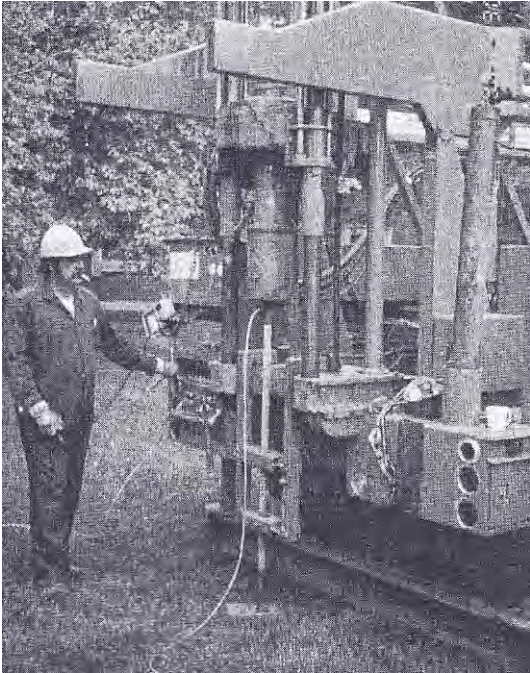


# How to transition into CPT



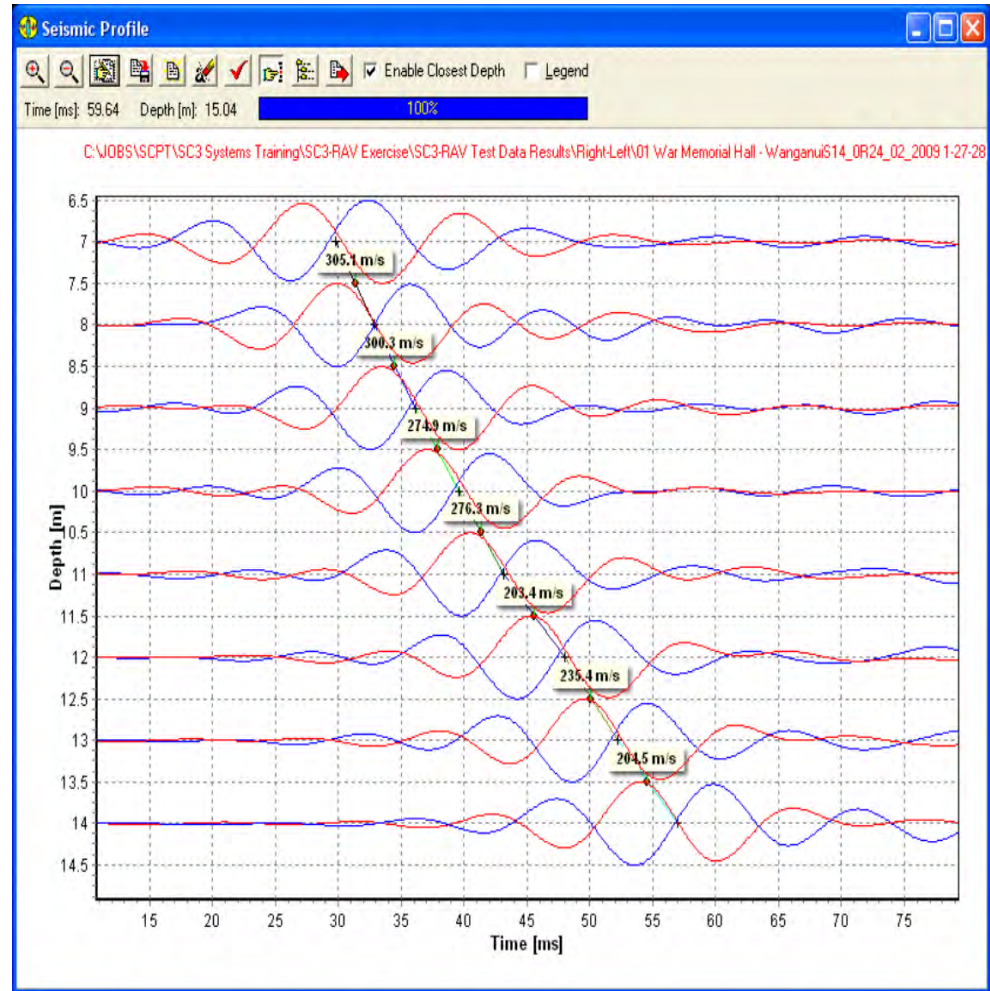
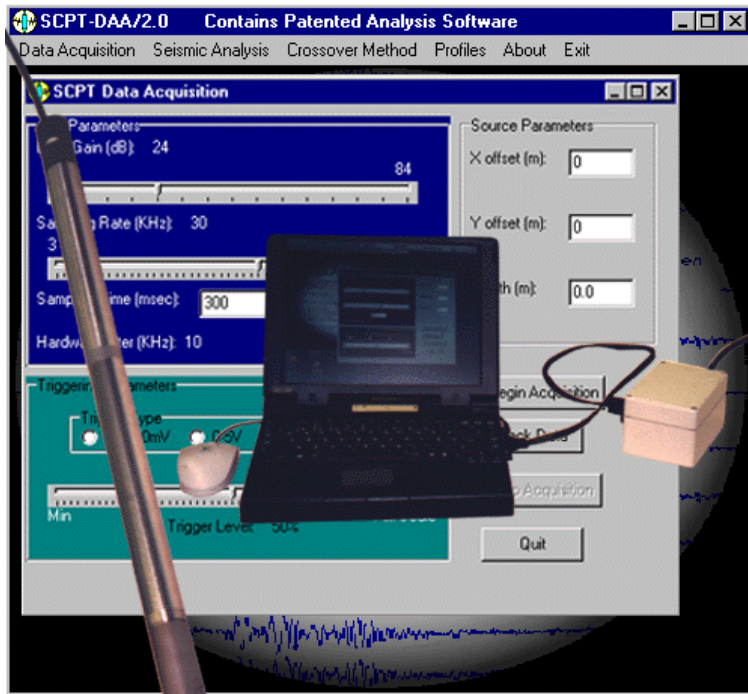
More efficiently

# How to transition into CPT



**More efficiently**

# Other options



# Seismic CPT



# Other options



**The probe measures various parameters from which the soil moisture content can be derived.**

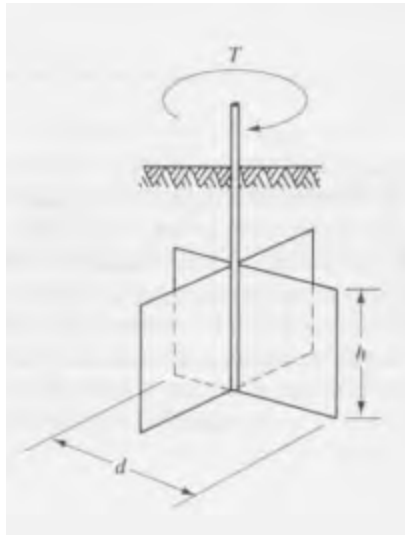
## Soil Moisture Probe

# Other options

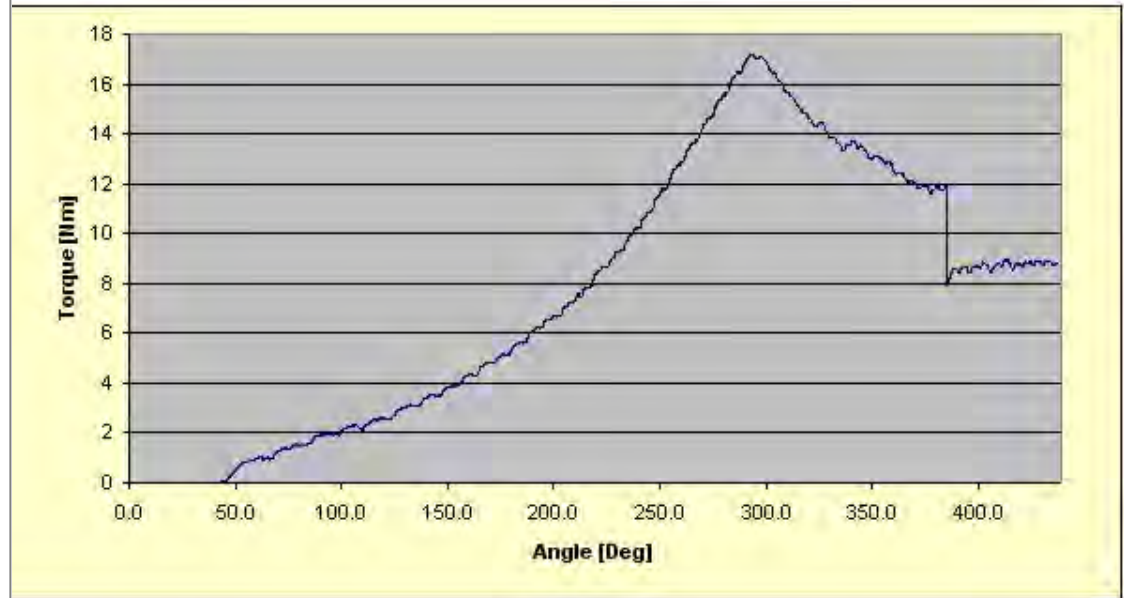


## Vane Testing

# Other options



<b>Project:</b>	S203vane test	<b>Operator:</b>	Kim
<b>Test hole:</b>		<b>Date:</b>	
<b>Test No.:</b>		<b>Ground Level:</b>	3.09
<b>Client:</b>		<b>Comment:</b>	
<b>Depth:</b>	6.00		
<b>Vane Type:</b>	V1	<b>Vane constant:</b>	2.182
<b>Sensing [sec]:</b>	1		
<b>Residual shear stress:</b>	8.692	<b>kN/m<sup>2</sup></b>	
<b>Shear stress:</b>	37.438	<b>kN/m<sup>2</sup></b>	
<b>Failure force:</b>	17.158	<b>Nm</b>	
<b>Friction force:</b>	0.000	<b>Nm</b>	<input type="text" value="12"/> [Deg]



Vane Testing – fully automatic 21