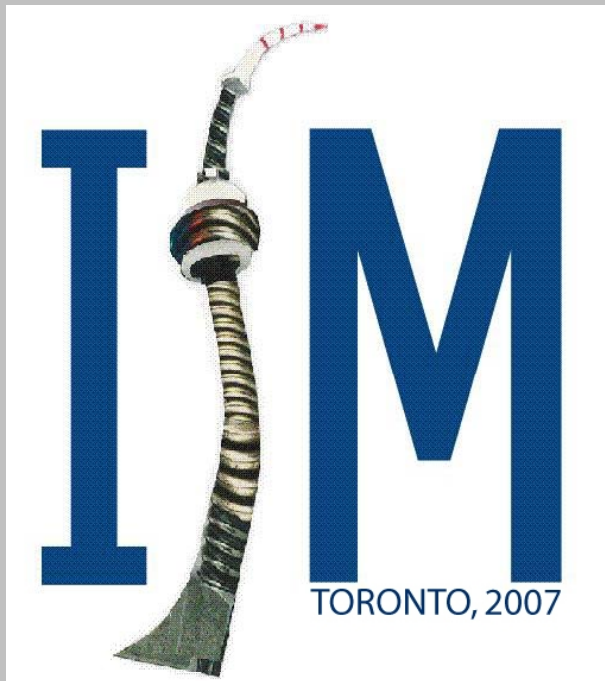


# Report on the 8<sup>th</sup> International Workshop on Micropiles



Toronto, Ontario, Canada  
September 26-30, 2007

# MISSION: IInternational Society for MicrospilesMPOSSIBLE



CASE FILE

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# OUR MISSION:



- Host the 8<sup>th</sup> International Workshop on Micropiles in Toronto, Canada
- Showcase our unique Canadian culture in a creative and historic setting
- Increase attendance and world-wide representation
- Challenge delegates with a controversial Field Demonstration
- **BREAK EVEN!**

99 Delegates representing 11 countries assembled at the unique Distillery Historic District; the former Gooderham and Worts Distillery originally constructed in 1832 and now Toronto's first pedestrian-only village.



- Argentina
- Austria
- Canada
- Finland
- Germany
- Japan
- Portugal
- Sweden
- U.K.
- U.S.A.
- Venezuela

# Technical Highlights

## Papers & Presentations

- 32 presentations delivered during 8 technical sessions
- ISM Chairman Dr. Jouko Lehtonen presented outline of the ISM's origins and video from IWM 2000 in Finland
- Dr. Thomas Herbst delivered 4<sup>th</sup> Lizzi lecture highlighting the evolution of micropiles over 55 years
- 3<sup>rd</sup> Lizzi Scholarship awarded to Mr. Mohammed Elkasabgy (UWO)



# Technical Highlights

## Papers & Presentations

- Long-Term Cyclic Performance Assessment of Micropile Systems by Gary Weinstein
- Micropiles - Design Parameters Interpreted from 280 Load Tests by Dr. Jesus Gomez
- Dr. Donald Bruce presented with Honorary Chairmanship of ISM



# Technical Highlights

## \$1000 Micropile Test Challenge

- How will 3 Micropiles perform under static compression load?
- Real-time testing and data acquisition
- 99 Attendees; 26 Entries
- The Winner = Graham Smith, Structural Preservation Systems



# Technical Highlights

## Field Testing





# Technical Highlights

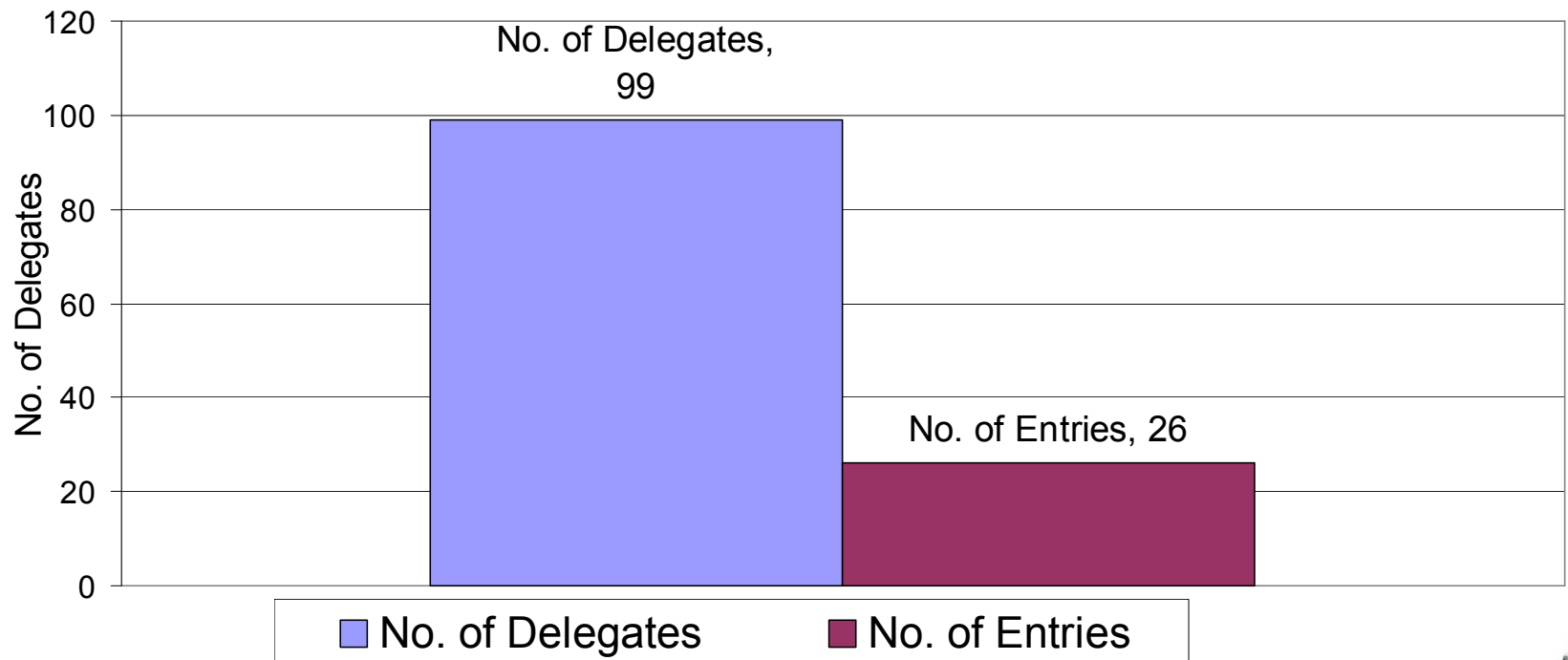
## The Esteemed Judges



Paul Woodfield, Branlow Piling (U.K.); Allen Cadden, Schnabel Engineering (USA); Haken Bredenberg, Bredenberg Teknik (Sweden)

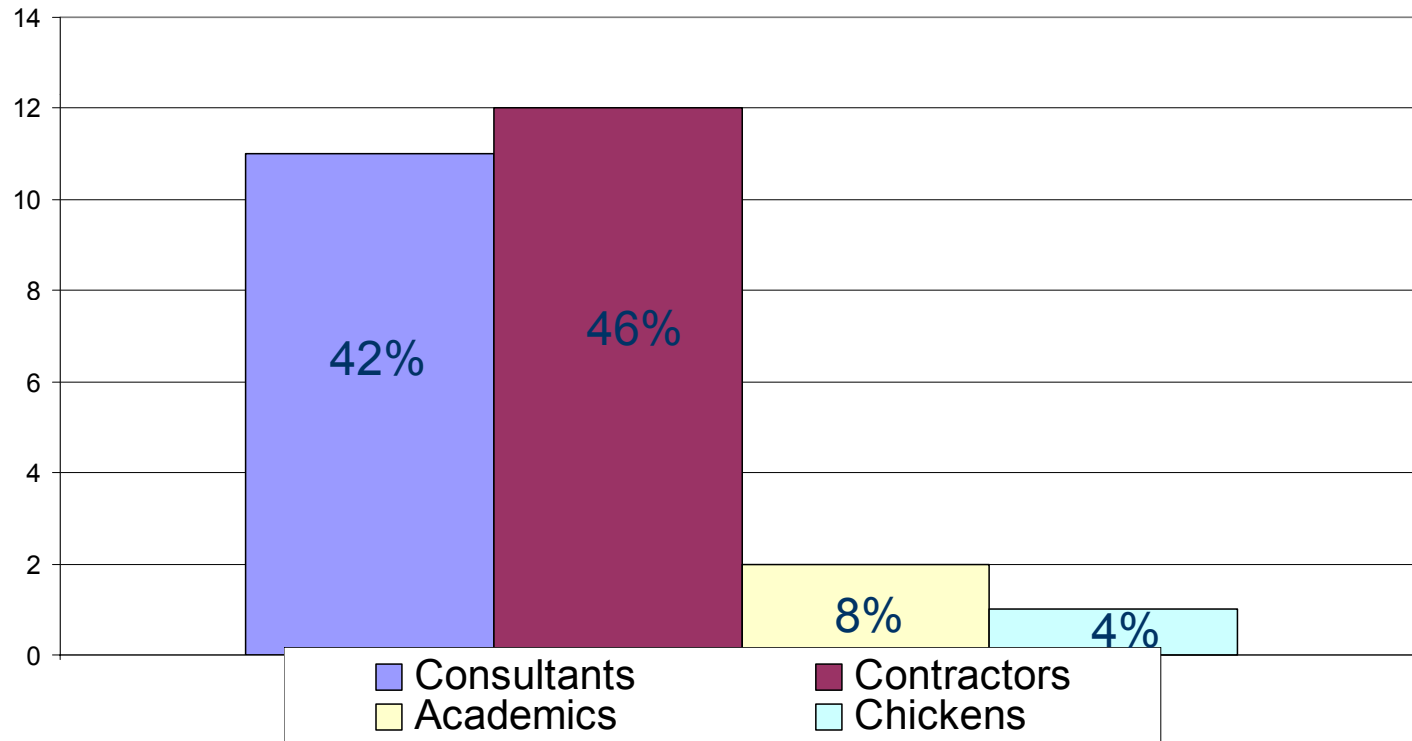
# Technical Highlights

## Who Was Up To The Challenge?



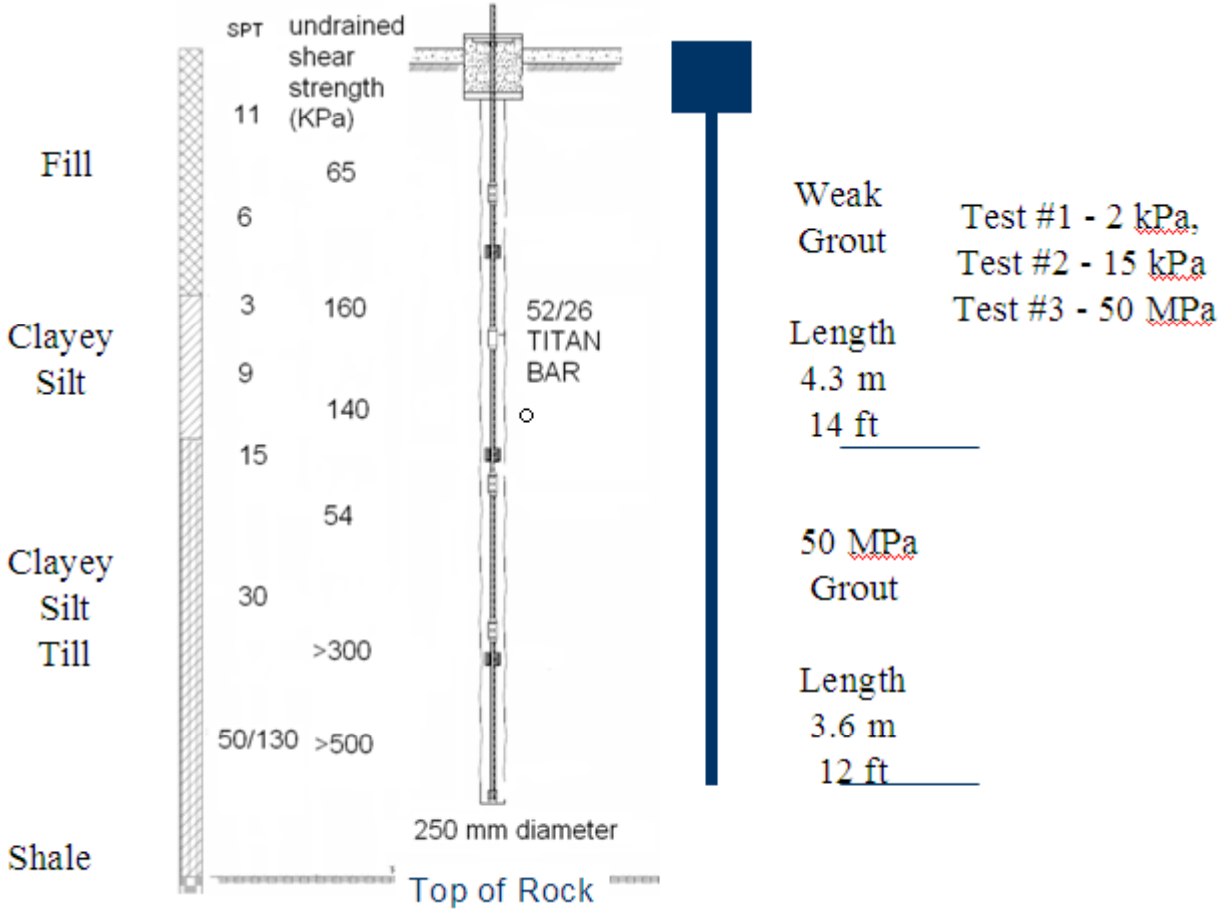
# Technical Highlights

## Who Was up to the Challenge?



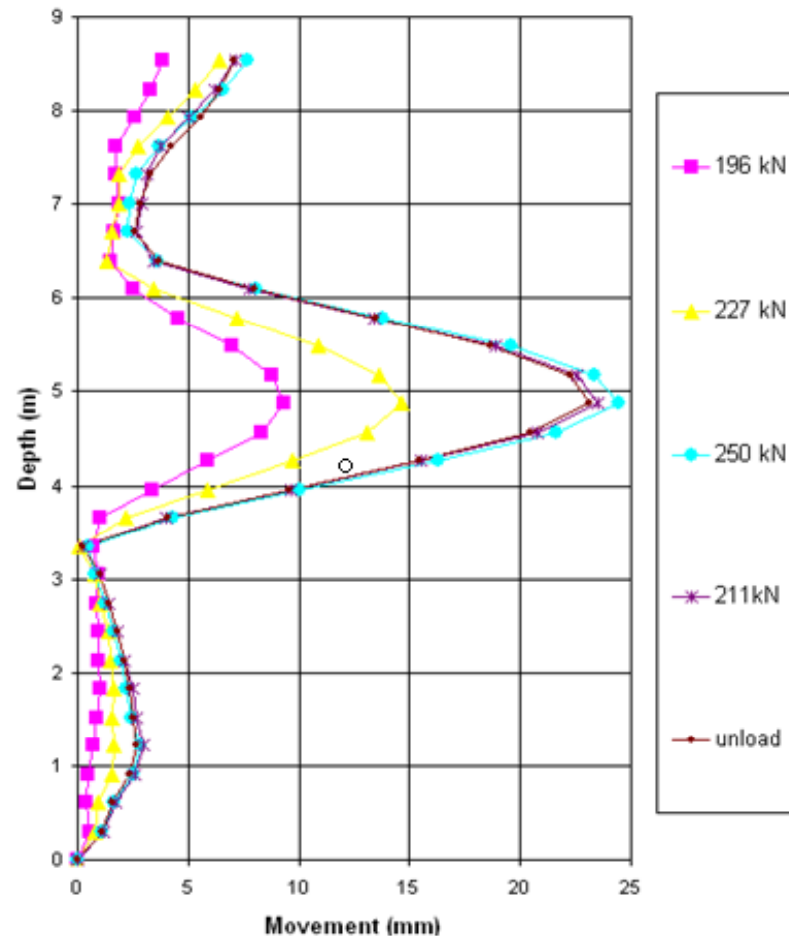
# Technical Highlights

## Soil Pile Geometry



# Technical Highlights

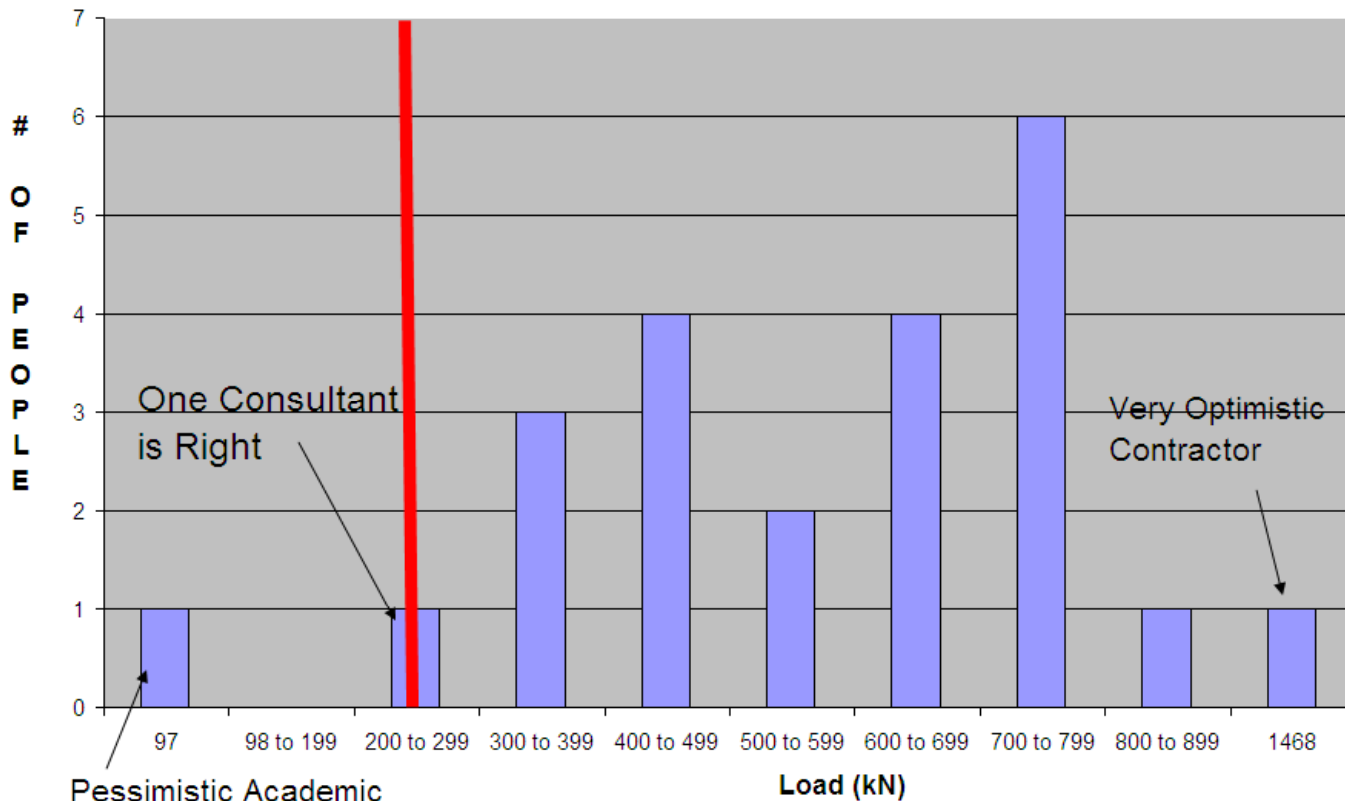
## Lateral Movement



# Technical Highlights

## Test # 1 - 2KPa

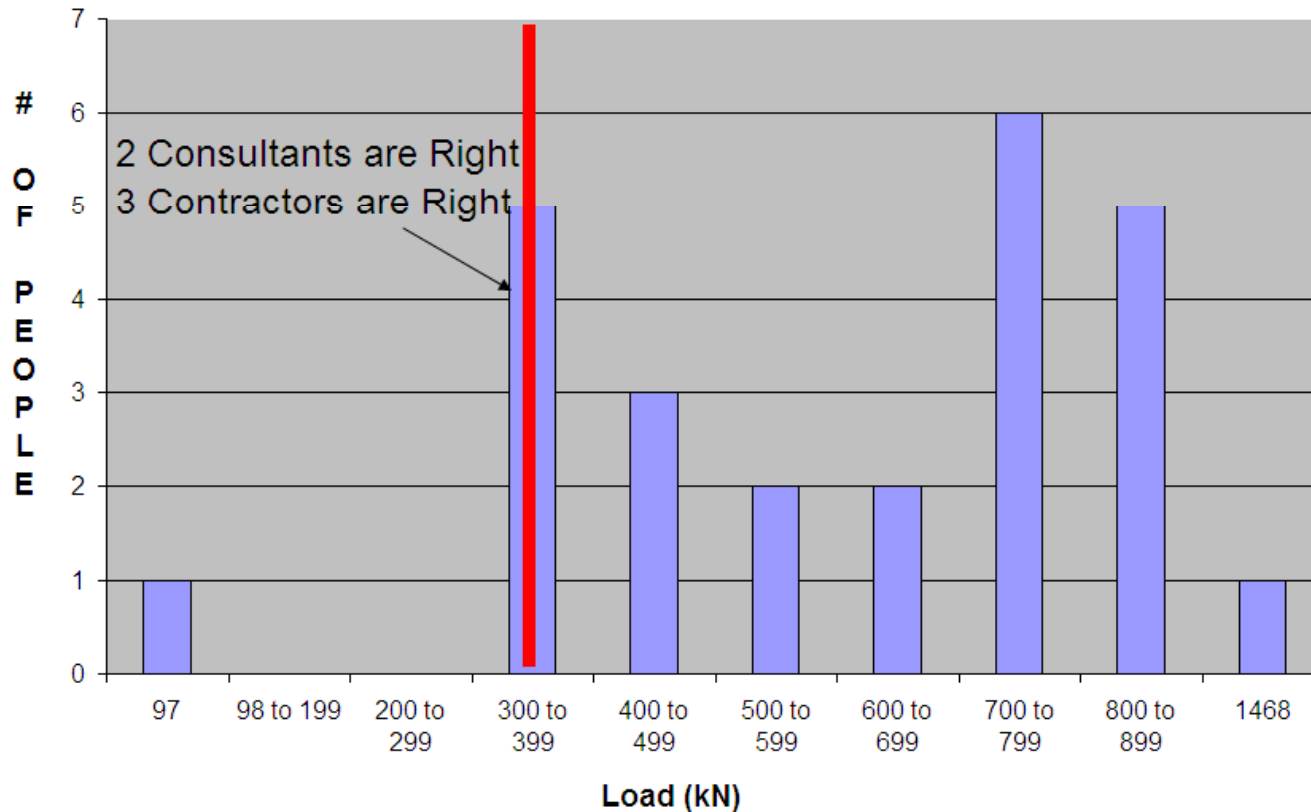
ACTUAL ULTIMATE LOAD 250 kN  
AVERAGE PREDICTION 577 kN



# Technical Highlights

## Test # 2 - 15KPa

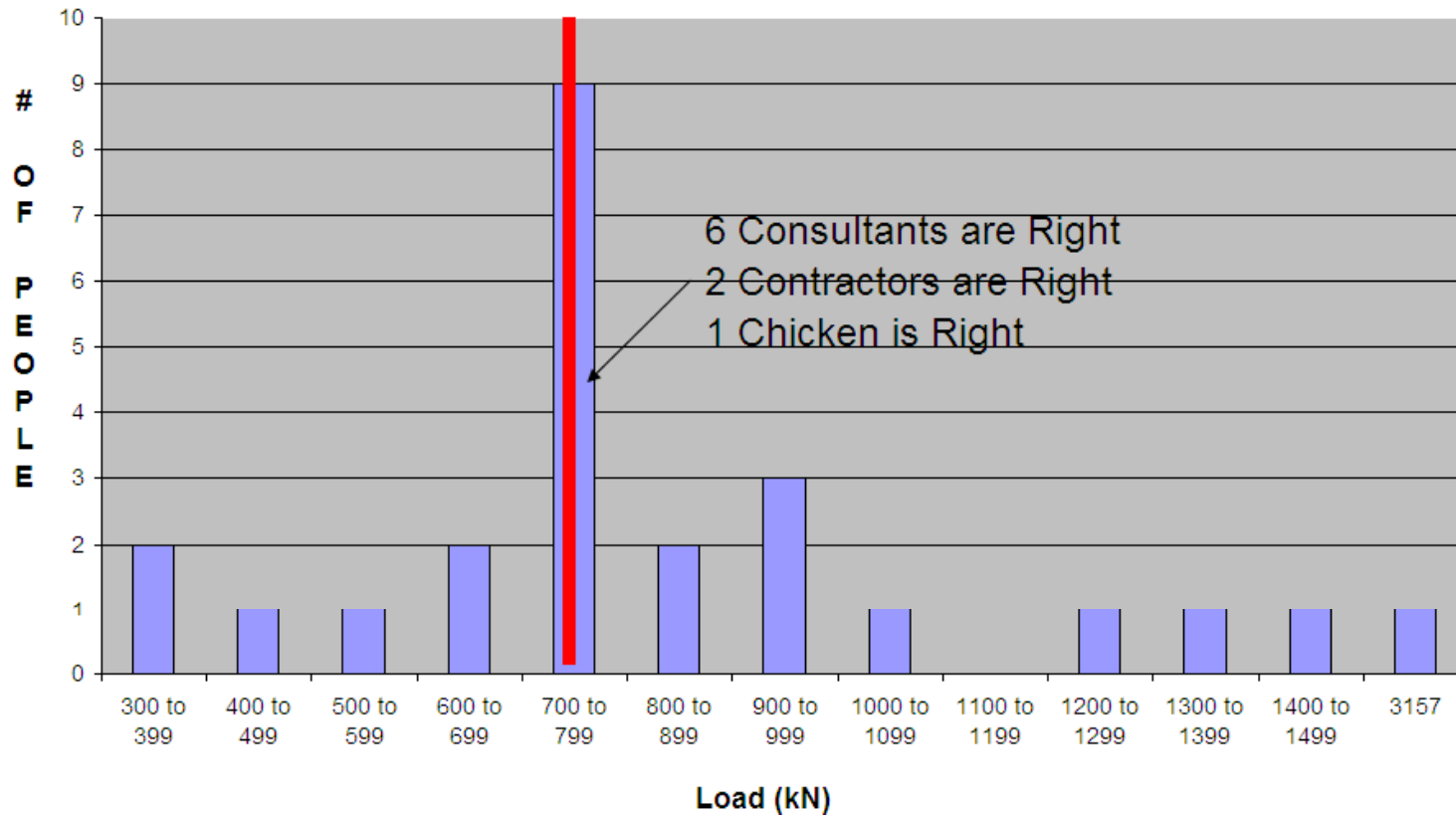
ACTUAL ULTIMATE LOAD 380 KN  
AVERAGE PREDICTION 611kN



# Technical Highlights

## Test # 3 - 50MPa

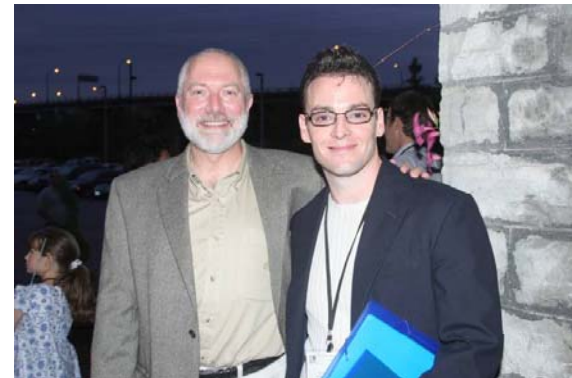
ACTUAL ULTIMATE LOAD 780 KN  
AVERAGE PREDICTION 892 KN





# Social Highlights

## Welcome Reception, Tappo Wine Bar



# Social Highlights

## Welcome Reception, Tappo Wine Bar



# Social Highlights

## Welcome Reception, Tappo Wine Bar



# Social Highlights

## Indigenous Evening, Fermenting Cellar



# Social Highlights

## Indigenous Evening, Fermenting Cellar



# Social Highlights

## Indigenous Evening, Fermenting Cellar



# Social Highlights

## Winery Tour, Niagara-on-the-Lake



# Social Highlights

## Winery Tour, Niagara-on-the-Lake





# Social Highlights

## Final Dinner & Tour of Niagara Falls



# Hard Costs

## Budget Vs. Actual

|   | Forecast        | Actual          |
|---|-----------------|-----------------|
| Venue                                       | \$13,400        | \$13,800        |
| Audio Visual                                | \$500           | \$9,400         |
| Catering & Entertainment                    | \$53,200        | \$59,600        |
| Transportation                              | \$6,000         | \$5,600         |
| General Expenses<br>(Printing, Photos etc.) | \$1,500         | \$4,500         |
| Contingency 15%                             | \$14,900        |                 |
| <b>Total</b>                                | <b>\$89,500</b> | <b>\$92,900</b> |

|                     |                |              |
|---------------------|----------------|--------------|
| Number of Delegates | 80             | 99           |
| Cost Per Delegate   | <b>\$1,119</b> | <b>\$938</b> |

## Budget Vs. Actual

|                                  | Forecast          | Actual            |
|----------------------------------|-------------------|-------------------|
| Delegate Revenue                 | \$65,000          | \$76,300          |
| Sponsorship                      | \$25,000          | \$23,300          |
| <b>Total Revenue</b>             | <b>\$90,000</b>   | <b>\$99,600</b>   |
| Profit/Loss (before Sponsorship) | <b>(\$24,500)</b> | <b>(\$16,600)</b> |
| Profit/Loss (after Sponsorship)  | <b>\$500</b>      | <b>\$6,700</b>    |

# 2007 Sponsors

## Gold Sponsors



## Silver Sponsors



## Bronze Sponsors

Bredenberg Technik



LB Foster



# MISSION: ACCOMPLISHED



(SORT OF)

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# Hidden Costs

## Additional Investments

|  | Hrs         | Cost                |
|--|-------------|---------------------|
| Technical Preparation<br>Field Demonstration by Isherwood                | 180         | \$22,400            |
| Technical Preparation & Field<br>Demonstration by Subcontract<br>(Monir) | 370         | \$24,300+           |
| Administration by Isherwood  | 1560        | 118,700             |
| <b>Total</b>   | <b>2110</b> | <b>\$165,400+</b>   |
| Profit/Loss (including hidden costs)                                     |             | <b>(\$158,700+)</b> |

# Lessons Learned

- Always budget for contingency
- Never underestimate IT costs
- Always work with experienced sub-contractors
- Sponsors are key

## *What we heard...*

“Thanks again for all the energy and effort your team put into the conference. We were genuinely impressed with the way it was run and how all the details were addressed. If all engineers put as much time, effort and energy into advancing the state of knowledge and experience as you and your firm do, we would all be so much better off. It does inspire me to try and make things better out here for all us over worked engineers.”

- *Troy Issigonis, Horizon Engineering*



## *What we heard...*

“One of the happiest features was the record turnout comprising both long-standing IWM participants and a large number of new ISM members”.

- *Dr. Donald Bruce, Honorary Chairman, ISM*

“You did a wonderful job that everything went so smoothly”.

- *Thomas & Gertraud Herbst*