

Signal Feedthrough Progress Report

ATLAS LAr Week
22 September 98

- Pin Carriers
- FEA Update



Presented by Terry Hodges
TRIUMF and University of Victoria
British Columbia, Canada

Pin Carrier Order for Prototypes at Victoria

- **Glasseal**

- 3 out of 20 received by Sept 15th 1998
- all leak tested at room temperature

- **Pacific Coast Technologies**

- 9 out of 10 received by Sept 15th 1998
- all leak tested at room temperature

- **Reminder on Costs**

- **Glasseal**

- 448 pins: US\$ 1455 each for 20 + US\$ 40 for Au
- 512 pins: US\$ 1621 each for 20 + US\$ 47 for Au
- 448 pins: US\$ 593 each for 500
- 512 pins: US\$ 659 each for 500

- **PCT**

- 448 pins: US\$ 3872 each for 10 + US\$ 1400 for Au
- 512 pins: US\$ 3961 each for 10 + US\$ 1400 for Au
- 448 pins: US\$ 1997 each for 500 + US\$ 200 for Au
- 512 pins: US\$ 2027 each for 500 + US\$ 200 for Au

Endcap Signal Feedthrough Project

Canadian Responsibilities

- Design
- Fabrication
 - Signal Pigtails purchased from Orsay
 - Low Voltage Pigtails purchased from MPI
- Commissioning
- Transport
- Assistance during installation:
 - Cover the cost of an orbital cutter
 - Assistance during welding on the cryostat
 - Assistance for leak testing during installation
 - DC Electrical tests during the installation

Endcap Signal Feedthrough Team

Paul Birney	Senior Technologist, TRIUMF Leak test station Assembly tooling
Margret Fincke	Research Associate, Victoria Electric test station Vacuum cable development
Terry Hodges	Chief Engineer, TRIUMF Feedthrough unit design Finite element analysis
Aaron Dowling	Junior Technologist, Victoria
Richard Keeler	Faculty, Victoria Test stations Vacuum cable development
Roy Langstaff	Senior Draftsman, TRIUMF Feedthrough unit design Procurement issues
Michel Lefebvre	Faculty, Victoria Project leader
Mark Lenckowski	Draftsman, TRIUMF
Ernie Neuheimer	Research Scientist, CRPP Carleton Vacuum cable development
Paul Poffenberger	Production Manager, Victoria Leak test station Vacuum system
Greg Vowles	Junior Technologist, Victoria
On a consultant basis:	
Randy Sobie	Faculty, Victoria DAQ