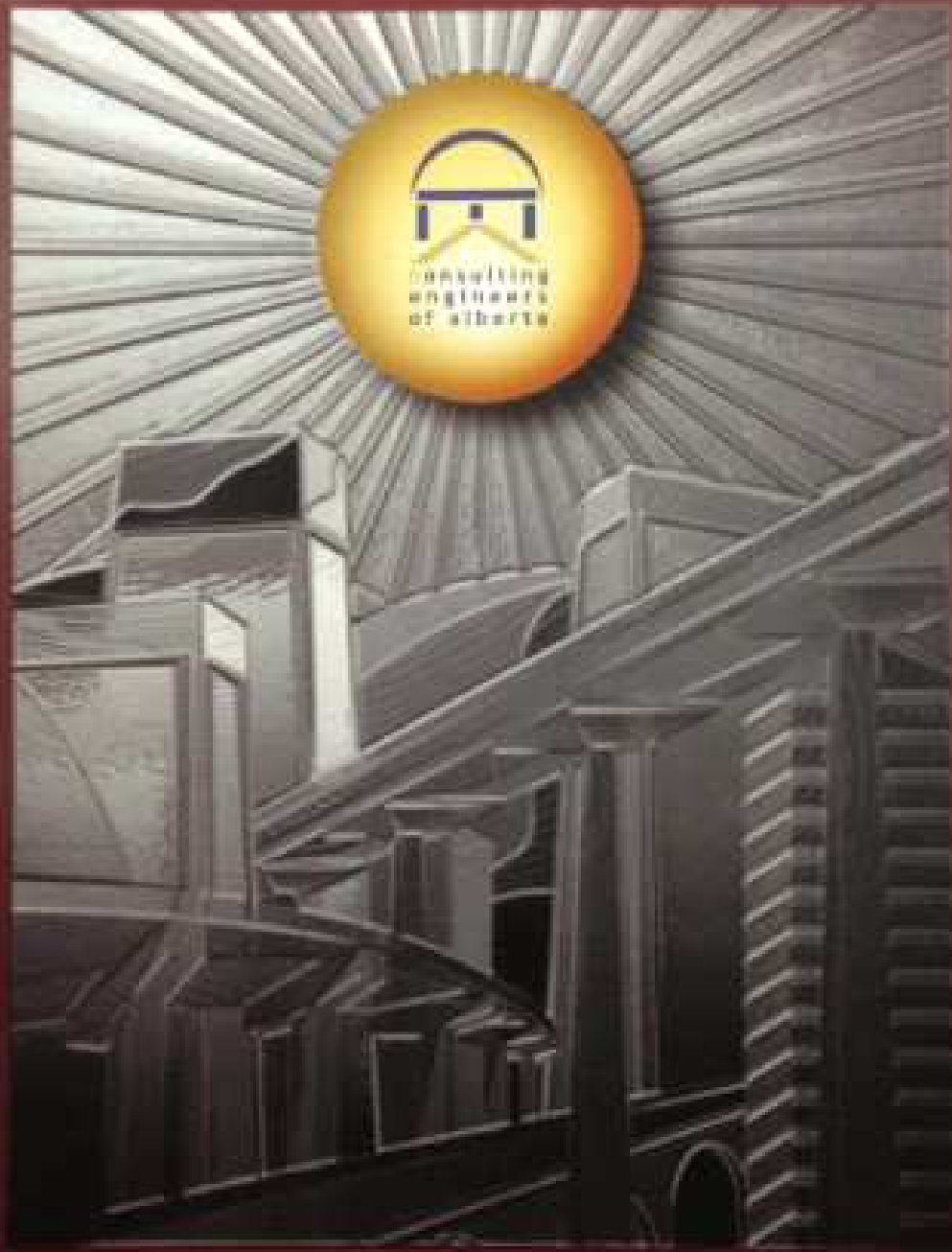


2004



**CONSULTING ENGINEERS OF ALBERTA**

Infinite Solutions for the Future



## Award of Excellence • International and Natural Resources

### Oleoducto de Crudos Pesados

Firm: Hydroconsult

Project: Oleoducto de Crudos Pesados

Client: Techint, Argentina, SA

Location: Ecuador, South America

Owner: Oleoducto de Crudos Pesados;

Craig Day, Tim Zboya

EPC Contractor: Techint; Ron Curle,  
Ignacio Viboud

The US\$1 billion, 500 km, 24"-36" OCP export oil pipeline in Ecuador winds its way through some of the most rugged terrain imaginable anywhere in the world. In its route from the Amazon River basin, across the 4000 m high Andes to the Pacific Ocean, it crosses 70 major river crossings. These required practical, unique, innovative, and fast-tracked designs and construction techniques particularly in the Rio Panallacta and Rio Quijos valleys, which experienced major landslides and massive volcanic-generated debris flows during construction.

The integrated approach applied to route evaluation, design, construction, and operation will enhance the safe and sound operation of the line and yield long-term economic dividends to all Ecuadorians.

### Judges' Comments:

"Often engineering is thought to be on large complex projects, however the OCP Pipeline challenge steps beyond the normal boundaries of engineering. The organization, risk, value, and benefit elements of this project are unique and require specialized engineering thinking — sometimes that which cannot be handled in a computer model."

"The demonstrated technical difficulty, innovation, and the benefit to society make this project #1. Extreme and dynamic project parameters were met in a challenging timeframe."

"The OCP Pipeline project was very complex and had a high level of risk. Hydroconsult was able to apply innovative solutions, managed the risk appropriately, and deliver the project on schedule."

