

Seminar on  
**Piled Raft Foundations**



**Sri Lankan Geotechnical Society**

**SSE**

**Society of Structural Engineers**

**S R I L A N K A**

**30<sup>th</sup> November 1998**  
**At the Trans Asia Hotel**



## COFFEY GROUP

COFFEY is one of the leading geotechnical environmental and groundwater engineering companies in Australia, servicing both government and private clients in the civil, industrial, building, mining, manufacturing sectors and rural industries in Australia, Asia, the Pacific and Africa. Coffey has completed over 40,000 projects in 20 countries and has won twelve awards for engineering excellence.

Coffey employs over 300 professional and technical staff in 15 offices throughout Australia and in the Philippines, Vietnam, Malaysia and Indonesia. Coffey maintains a range of field equipment including pressuremeters, electric friction cones, piezometers, vane shear, various dynamic cone penetrometers and geophysical equipment.

### Fields of Practice

#### Field Exploration

Terrain evaluation, geophysical surveying, offshore exploration, offshore seismic investigation, pressuremeter and friction cone testing, hydrogeological testing.

#### Foundation Analysis and Design

Design of heavy foundations for industrial plants and buildings, storage tank foundations, dynamic and machine foundations, ground improvement, pile designs, solutions for swelling soil problems.

#### Pavement and Rail Track Systems

Design of road pavements, heavy duty pavements for container terminals and airfields, rail track systems, soil stabilisation.

#### Excavations, Stability and Support Systems

Landslide stabilisation, design of sheet piles, slurry walls, retaining wall and other support systems, assessment of movement due to deep excavations, design of soil nails, anchors, etc.

#### Dams and Water Storage Structures

Design of earth and rockfall embankments, grouting, construction supervision and control, execution of tunnels in difficult terrain.

#### Mining and Offshore Foundation

Wharfs, berths and dock structures, dredging investigations and spoil disposal, foundations for offshore structures.

#### Groundwater

Regional groundwater studies, groundwater exploration and development, urban and rural water supply schemes, dewatering, drainage and groundwater control, recharging, water management, disposal and pollution control.

#### Environmental

Landfills, landslip zoning and risk assessment, erosion control, environmental impact studies, solid and liquid waste management & remediation, blasting and vibration surveys.

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# Seminar on Piled Raft Foundations



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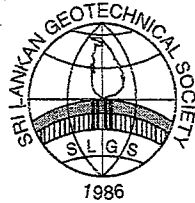
## Sponsors :

- C.D. Piling Ltd.
- Nawaloka Construction Co. Ltd.
- Sincon Lanka (Pvt) Ltd.
- Walkers Piling Ltd.

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## Agenda

- 0830 h - 0900 h - Registration
- 0900 h - 0905 h - Welcome address
- 0905 h - 1035 h - *Pile Group Settlement Analysis*  
(Prof. Harry Polous)
- 1035 h - 1045 h - Presentation by C.D. Piling Ltd.
- 1045 h - 1110 h - Morning Tea
- 1110 h - 1210 h - *Negative Friction on Piles* (Prof. Harry Polous)
- 1210 h - 1220 h - Presentation by Nawaloka Construction Co. Ltd.
- 1220 h - 1310 h - Lunch
- 1310 h - 1320 h - Presentation by Sincon Lanka (Pvt) Ltd.
- 1320 h - 1450 h - *Piled Raft Foundations : Design Concepts and Principles* (Prof. Harry Polous)
- 1450 h - 1500 h - Presentation by Walkers Piling Ltd.
- 1500 h - 1530 h - Afternoon Tea
- 1530 h - 1720 h - *Presentation of some relevant case histories from Sri Lanka and Discussion on all the topics.*
- 1720 h - 1725 h - Vote of Thanks



## SRI LANKAN GEOTECHNICAL SOCIETY

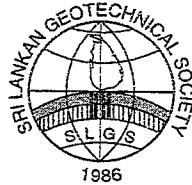
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99/1, Jawatta Road,  
Colombo - 05



## Message From the President Sri Lankan Geotechnical Society

*The Sri Lankan Geotechnical Society is very proud to be associated with the Society of Structural Engineers, Sri Lanka in organising this Workshop cum Seminar on Piled Raft Foundations.*

*Over the past 20 years, a large amount of research and development has been taking place in the area of Soil – Structure Interaction, and these results have been incorporated into the analysis and design of sub-surface structures.*

*However, the application of this new knowledge to our own local conditions has been rather limited because of a combination of*

- (i) insufficient number of trained staff in this field;*
- (ii) lack of relevant geotechnical data for analysis;*
- (iii) lack of appropriate software for detailed analysis.*

*As a first step in overcoming these drawbacks, we have invited Prof. Harry Poulos of Sydney University and Coffey Partners International Pty. Ltd. Australia to lead this Workshop cum Seminar, and to bring to the attention of our members the latest developments in this field. Prof. Poulos is a very highly respected authority internationally in this area, and we are very thankful to him for having accepted our invitation. It is our hope that this seminar will act as a catalyst to these studies under our local conditions.*

*On behalf of the Sri Lankan Geotechnical Society, I wish to thank all the sponsors who came forward to finance a major part of the expenses for the seminar.*

**Prof. B.L. Tennekoon**  
**PRESIDENT - SLGS**

30<sup>th</sup> November 1998