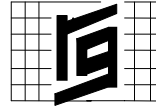


ROMEIKA & GATSOS

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CANTERBURY NSW 2193

Consulting Structural Engineers



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COMPANY PARTICULARS

- HISTORY
- KEY PERSONNEL
- BACKUP RESOURCES
- EXPERTISE
- SUPPORTING SYSTEMS
- QUALITY ASSURANCE
- PROJECTS
- CURRICULUM VITAE OF PRINCIPALS

HISTORY

Romeika and Gatsos is a firm of structural engineering consultants with extensive experience in the structural design and documentation of a wide variety of building structures.

The depth of experience and technical knowledge of our personnel together with a commitment to quality systems, underpins our aim to provide quality, confident and cost effective engineering services for the firm's clients.

The firm was founded originally by Alfred Romeika in January 1988 and traded as Alfred Romeika & Associates. In 1989 Angelo Gatsos joined the firm and thus formed Romeika & Gatsos.

KEY PERSONNEL

Alfred Romeika - Partner, Senior Engineer

Angelo Gatsos - Partner, Senior Engineer

BACKUP RESOURCES

We have established close ties with various drafting and CAD firms and when necessary, can rely on these firms to increase our in-house drafting capacity.

When the size or complexity of a project has required it, we have employed technical staff on a contract basis and/or engaged specialist consultants to carry out work that is outside our area of specialization.

EXPERTISE

Our partners are highly trained, chartered professional engineers and have many years experience in the structural/civil engineering field. This experience includes the design, documentation and construction phase inspections of a wide range of developments including retirement villages, pensioner housing, child care centres, health care centres, factories, churches, schools, commercial premises and multi storey residential apartments.

In addition to the design of new buildings and civil engineering structures, such as minor roadways, etc., we have expertise in the investigation and rehabilitation of existing defective structures including those suffering from "concrete cancer". Projects of this nature include major multi storey residential buildings in Sydney, Newcastle and Wollongong.

Please see Projects section for more details.

SUPPORTING SYSTEMS

We have a wide range of state-of-the-art computer software for the analysis and design of structures including the following:

- "MICROSTRAN" a structural analysis program incorporating modules for the design of concrete and steel structures;
- "ARIES" a suite of structural analysis and design programs;
- "SLABS" program which is used for the design and analysis of multiple panel slab floors with various loading patterns;
- "BUILDING" a program that analyses whole structures and works integrally with "SLABS";
- "COLUMN" a program for the design of concrete columns, which can work integrally with "BUILDING";
- "RC BEAM" a program for the design of reinforced concrete beams, which can work integrally with "BUILDING";
- "RWALL" a program for the design of reinforced masonry retaining walls;
- "FOOTING" a program for the design of reinforced concrete footings;
- "STRESS 2D" a program for the stress analysis of two dimensional systems;
- "SPANMAN" a program which designs residential framing in steel and timber in accordance with AS1684 & AS1720;
- "TIMBER SOLUTIONS" program which is similar to "SPANMAN" with some significant alternative features.;

- "LIMSTEEL" for the design of steel structures to Australian Standard AS4100;
- "LIMCON" for the design of structural connections;
- "STEEL 41" for the design of elements in steel structures;

In addition to the above commercially available programs, we have developed numerous engineering software programs and spreadsheet routines written in house for the analysis and design of structural elements in accordance with relevant Australian standards.

All drafting within the firm is produced using AutoCAD.

QUALITY ASSURANCE

We engaged Quality Australia to assist our firm in the design, development and implementation of a quality assurance system in accordance with Australian and International quality standards.

Our firm has achieved "substantial quality assurance" status, as required by the NSW Department of Public Works. We have not applied for a third party quality audit and certification.

PROJECTS

The following is a list of some of the projects undertaken by us. We would be happy to provide more detailed or specific information upon request.

Residential

- 27 Self Care Units - Retirement Village for the Uniting Church at Blacktown, Stage 1 - Project cost \$2.9 million;
- 41 hostel units - Retirement Village for the Uniting Church at Blacktown, Stage 2 - Project cost \$2.9 million;
- 41 serviced apartments - Retirement Village for the Uniting Church at Liverpool - Project cost \$2.7 million;
- Multi storey (10 level) residential buildings at Burwood, Waterloo and Riverwood for the Department of Housing;
- Residential buildings for Aboriginal Housing throughout N.S.W. including special mud brick designs;
- Residential buildings with 2 storey underground parking at Crows Nest for North Sydney Council;
- 3 storey apartments with car parking under at Wollstonecraft and East Gosford;
- 7 storey residential apartments with two level of car parking and shops under at Kingsford - project cost \$4.4 million;
- Design of pensioner units at Nyngan and Collarenebri incorporating the Waffle Pod Footing System.
- Three storey flats/commercial building (66 units + shops) at Ashfield, requiring strengthening of existing carpark to support load-bearing 3 storey building over.
- Numerous walk-up flats buildings, attached dwellings/townhouses, single dwellings, dual occupancies, pensioner units, etc. for government departments, project builders and individuals.

Commercial

- Barclays Bank building Marrickville;
- Motel at Narellan - Project cost \$1.2 million;
- Small Shopping Centre at Canley Heights - Project cost \$0.9 million;
- Petrol Service Station at St.Andrews;

Institutional

- Community Health and Day Care centres in Fairfield and Hoxton Park for the South Western Sydney Area Health Service - Project cost \$1.8 million;
- A large number of Child Care Centres throughout N.S.W. for the Youth and Community Services department;
- Stage 2, 3 and 4 of school building for St. Euphemia Greek Orthodox College at Bankstown;
- Renovations to various schools for NSW Public Works Department;

Defective Buildings

- Rehabilitation of 10 storey residential building at Camperdown affected by spalling concrete etc., for the Department of Housing - Project cost \$1.2 million;
- Rehabilitation of 14 storey residential building at Surry Hills affected by spalling concrete etc., for the Department of Housing - Project cost \$0.6 million;
- Rehabilitation of 8 storey residential building at Rosebery affected by spalling concrete etc., for the Department of Housing - Project cost \$0.4 million;
- Rehabilitation of 23 storey city hotel affected by spalling concrete, steelwork corrosion etc.;
- Repairs to spalling concrete and to roof of 7 storey residential building at Paddington;
- Investigation and documentation of rectification procedures for spalled concrete at 2 x 6 storey residential apartment buildings at Hamilton South, Newcastle for the Department of Housing - Project cost \$0.5 million;
- Inspection and provision of remedial measures for all Department of Housing structures affected by the Newcastle Earthquake of December 1989;
- Inspection and reporting of 35 dwellings affected by Mine Subsidence at Booragul N.S.W. for the Mine Subsidence Board;
- Preparation of specification and contract documents for waterproofing of units and suspended car park slab and suspended front and rear yards and walkways for residential development at Leichhardt NSW;

- Preparation of specification and contract documents for concrete repair, waterproofing and asphaltting of various parking areas, roadways and driveways, on ground and suspended, at the "Endeavour Estate", Waterloo. Project cost \$0.4 million;
- Inspection of a large number of defective buildings for the Department of Fair Trading (assisting the Parliamentary Inquiry into Building Services Corporation consumer grievances).
- Rehabilitation of 7 storey residential building at Maroubra affected by spalling concrete, corroded handrails, deteriorated magnesite floors, leaking roof membranes, etc., for the Body Corporate - Project cost \$2 million

Industrial

- Factory buildings at Airds, Minto, Narellan, Bankstown, Fairfield, Punchbowl, Revesby, South Windsor, Wetherill Park, Granville, Marrickville, Padstow, etc.

Civil

- Design of minor residential roads, bus laybys etc., at various locations for the Department of Housing;
- Driveway/parking areas for numerous Department of Housing Pensioner Unit projects;
- Preparation of specification and contract documents for construction of crib retaining walls at Unanderra, Balgownie, Macquarie Fields, North Ryde and Nelson Bay N.S.W. for the Department of Housing;

Miscellaneous

- Upgrading of X-Ray facilities for Charles Wentworth Private Hospital, Wentworthville;
- Structural review of design and specification for submarine training facilities at HMAS WATSON for Computer Sciences of Australia;
- Review of design and documentation of other Consultants;
- Review of structural and related aspects of the Acceptable Methods Of Construction Booklet (used by Banks and other lending authorities);
- Preparation of specification and contract documents for demolition of factory and other buildings at Erskineville and Newtown N.S.W. for the Department of Housing;

- Telecom exchanges at Mascot and Pymble: structural assessment of load capacity of existing building elements (slabs, beams, columns) to carry proposed machinery/equipment where the intended use is changed from the original design;
- Pre-purchase inspections for home buyers (either directly for intending purchaser or via real estate agent, building consultants, etc.);
- Design of a crane cabin for Comalco: 3-dimensional computer analysis and design required;

CURRICULUM VITAE OF PRINCIPALS

NAME: ALFRED ROMEIKA BScEng, MIEAust, CPEng, NPER

POSITION: Senior Engineer and Principal

ACADEMIC AND PROFESSIONAL QUALIFICATIONS:

- Bachelor of Science (Engineering) in Civil Engineering (University of New South Wales - 9 April, 1974)
- Corporate member of the Institution of Engineers Australia. (Admitted 30 October, 1979)
- Chartered Professional Engineer with Institution of Engineers, Australia. (Membership Number 171459)

EXPERIENCE:

- Engineer with the Housing Commission of New South Wales and later the Department of Housing (1974-1980);
- Senior Structural Engineer with Department of Housing in charge of the Special Projects group and later the Engineering Systems group consisting of 14 technical staff including 5 engineers. Responsible for all of the Department's structural and various civil engineering works and functions throughout of the state. Was responsible for the overall project management of group's civil works contracts. Represented the Department in various technical committees including the Chief Engineers Association and the Australian Standard Residential Slabs and Footings Code panel (1980-1987);
- Principal of Alfred Romeika and Associates - Consulting Structural Engineers (1987-1989);
- Principal of Romeika and Gatsos - Consulting Structural Engineers (1989-present).

NAME: ANGELO GATSOS BE, MEngSc, MIEAust, CPEng, NPER

POSITION: Senior Engineer and Principal

ACADEMIC AND PROFESSIONAL QUALIFICATIONS:

- Bachelor of Engineering (Civil)
(University of Sydney - 7 April, 1979)
- Master of Engineering Science (in structural and foundation engineering)
(University of Sydney - 13 March 1987).
- Corporate member of the Institution of Engineers Australia.
(Admitted 24 November, 1983)
- Chartered Professional Engineer with Institution of Engineers, Australia.
(Membership Number 22993)

EXPERIENCE:

- Engineer with the Housing Commission of New South Wales and later the Department of Housing (1980-1987);
- Senior Structural Engineer with Department of Housing in charge of Engineering Systems group consisting of 14 technical staff including 5 engineers. Responsible for all of the Department's structural and various civil engineering works and functions throughout of the state. Responsible for the overall project management of group's civil works contracts;
- Principal of Romeika and Gatsos - Consulting Structural Engineers (1989-present).