

## CURRICULUM VITAE (Needs further editing BAB)

Name **BRYAN A BARTLEY** <sup>Allen</sup> **ONZM** Updated June 2010  
Address 625 Mt Eden Rd Mt Eden Auckland  
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Date of Birth 30th November 1928

Family Status Married. Present family of 8 children. 22 Grandchildren

Career Details BE(Civil) Degree. University Auckland. 1952

1950/52 Auckland City Council training in structural design, contract supervision on a roading project and hydraulics with City Waterworks Department.

1952/61 Joined Winstone Ltd at Lunn Ave Quarry, Auckland  
Design of the installation of the largest primary crusher in New Zealand.  
Supervised the building construction and erection and involved in the commissioning of that project. Corporate Member of NZIE & ICE 1956  
Registered Engineer.

Prospecting for new quarry sites. - Geology and drilling etc. Involved in the purchase and development of Winstone's Hunua Quarry.

1961/63 With Gammon Malaysia Ltd as Quarry Engineer for proposed Kuala Lumpur Airport. This included quarry prospecting, site investigation, plant selection, design and tendering. The quarry activity was to avoid delays in supply that had been a serious problem in large contracts.

The airport project was delayed 12 months, so other experience included international contracting, tendering and contract management in Malaysia and tendering for a large project in Thailand.

With a change in the top management of Gammons the decision was taken not to open a quarry, but to use local suppliers. The result was a serious delay in completing the contract.

1963/67 Returned to Winstone Ltd as Quarries Engineer, worked on a wide variety of projects related to seven quarries throughout the North Island.

1967 to 1985. Transferred to Winstone Central Engineering Services as Assistant Company Engineer, advanced to Group Engineer and General Manager Central Engineering Services.

This was a time when in-house professional services were preferred by large organisations. Central Engineering Services included professional engineers in the disciplines of Civil, Mechanical and Electrical engineering, an architect, two geologists, supporting draftsmen and technicians including contract supervision. The Electrical Department did all the heavy electrical work down through the process control activities to the light electrical installations. A motor rewind section was included. Building services also included carpenters, plumbers and painters.

Retired Winstone Ltd 1985

1971 Co-inventor with Jim Macdonald of the Barmac Rock Crushers.

The unique feature of the Barmac crushers was breaking stone against stone, instead of stone against steel, by high velocity impact. The product is of remarkable cubical shape through the full range of product sizes down to sand, so is sort after for the manufacture of sealing chips, concrete and asphalt production. This machine was called a Barmac Rotopactor.

The second invention stage was to add a second flow of feed stone into the breaking chamber to be included in the high intensity breaking. This increased the production of fine material by up to 40% for no extra wear cost or power. This was further patented and called a Barmac Duopactor.

1979 Joined Council of Carrington Polytechnic (now UNITEC)

1990 - 97 Chairman of Council UNITEC

1985- 94 Full time management of Barmac Associates Ltd. This company held the intellectual property of the Barmac rock crushing and grinding machines and involves the administration of the patents, trademarks and licenses for manufacture and sale throughout the World.

Dec 94 Sold Barmac Associates Ltd with intellectual property to Svedala, a Swedish company which had taken over Allis Chalmers.

95 to present

Retained and manage the property company Barmac Holding Ltd.

Director of Kiwi Feather Props Ltd. manufacturing a new patented yacht propeller.

2,000 New Years Honours. Awarded Officer of the New Zealand Order of Merit, ONZM. for

services to engineering and the community.

#### Qualifications

Bachelor of Engineering (Civil)	BE (CIVIL)
Fellow Institution of Professional Engineers NZ.	FIPENZ
Member Institution of Civil Engineers	MICE.
Honorary Fellow of Institute of Quarrying.	HonFIQ
Member of Society of Mining Engineers	MSME
of American Institute Mining Engineers	
Fellow Australasian Institute of Mining and Metallurgy	FAustIMM

#### Papers Written and Presented

Design & Development of the Barmac Rotopactor Jan 85  
Canadian mineral Processors Conference

High Intensity Autogenous Crushing. 1988

Inst of Quarrying Bi-Centennial Conference Canberra

(Won the Caernafon Award. Best Adjudged IQ paper 1989)

High Intensity Autogenous Milling 1988

8th Industrial Minerals International Conference. Boston USA

High Intensity Autogenous Impact Breaking.

Chapter 28 "Comminution- Theory and Practice"

Editor S. Kormar Kawatra. AIME USA

Pub. Soc for Mining Metallurgy and Exploration.Inc.

ISBN 0-87335-112-6

Winstones Lunn Ave Quarry Auckland

IE Aust Engineering Heritage Conference. Ballarat. Aust. 1997

## Positions Held and Other Activities

Institution of Professional Engineers NZ  
     Chairman Auckland Branch Committee  
     Executive Vice President (Professional Practice)  
     Chairman Auckland Conference Committee 82  
 Chairman, Institute of Quarrying, NZ Branch.  
 International President, Institute of Quarrying. (UK Based) 1991  
     *(The Institute of Quarrying is the professional body of the quarry industry in which members qualify and stand in their own right. Established in UK in 1914, it has branches in Australia. New Zealand, South Africa and Hong Kong.)*  
 Advisory Member, Building Research Assoc NZ.  
 Elected to Auckland Electric Power Board (1 Term)  
 Past President and Hon. Life Member, Civic Trust Auckland.  
     *A society of environmental concern and preservation of heritage*  
 Member, Board of Auckland Heritage Trust, representing the Civic Trust.  
 Aggregates Assoc NZ, Founder Chairman of the Technical Committee.  
     Hon. Life Member 1996.  
 Chairman AggPac 84 an International Quarry Conference held in Auckland  
 Chairman, Council of UNITEC Institute of Technology 1990 to 97.  
     *(formerly Carrington Technical Institute)*  
 Member Exec. Committee, Association of Polytechnics NZ 1991 to 98  
  
 Co-inventor with the late Jim Macdonald of the Barmac rock crushing machines.  
 Together awarded, First Prize, UDC Inventors Award. 1979.  
 Jim Macdonald died in 1982.  
 Barmac Crushers are manufactured in New Zealand, United Kingdom and Japan. 2,000 machines had been sold around the world, when Barmac Assocs Ltd sold to Svedala in Dec. 1994. Sizes range up to 1,000 horse power. By 2004 3,500 machines sold with BARMAC name and approx 1200 copy machines.  
 1997 Svedala NZ won the TradeNZ, Top Export Award, as "Exporter of the Year" *(for Barmac manufacture and sales ex Matamata.)*  
 Svedala, now owned by METSO Minerals. Barmac manufacture still in Matamata and Japan.  
  
 Co-inventor with John Blundell of the patented Kiwi Feather propellers, for racing and cruising yachts. These propellers use modern composite materials for the blades and have unique features that give considerable benefits over the present range of propellers on the market. These benefits include less galvanic corrosion, lower inertia so reducing transmission shocks, full thrust in reverse, less resistance to water flow and lower selling price. From 2000 to 05 some 800 sold, 60% to export. Uses internet sales  
  
 In retirement still active with Kiwi Feather Props Ltd.  
 Probus Club Eden & Epsom, Past President.  
 U3A Remuera, President 06.  
  
 Member of IPENZ Heritage Committee.  
 Civic Trust Auckland, again President.  
 Other interests Family activities and property, U3A, Yachting - 37ft Keeler.  
     *(Round North Island, 2 handed yacht race 1986)*