

William J Ackerman
Distinguished Lecturer, IEEE (PES) USA

PUBLIC LECTURE SERIES: POWER DISTRIBUTION & CONTROL ISSUES

5.30pm, 14 JUNE 2006
University of Auckland, AUCKLAND

1pm, 19 JUNE 2006
University of Canterbury, CHRISTCHURCH

1pm, 20 JUNE 2006
Transpower NZ, WELLINGTON

DATES & VENUES

5.30pm-6.30pm, 14 June 2006
University of Auckland, Auckland

Seminar Room 420, Kate Edgar Informations Common, University of Auckland, 11 Symonds Street, Auckland.

1pm-2pm, 19 June 2006

University of Canterbury, Christchurch

Level 3 Lecture Theatre, Level 3, Department of Electrical & Computer Engineering, University of Canterbury, Creyke Road, Christchurch.

1pm-2.30pm, 20 June 2006

Transpower NZ, Wellington

Seminar Room, Ground Floor, Transpower House, 96 The Terrace, Wellington.

INTRODUCTION

The EEA, in conjunction with the IEEE (PES), is pleased to offer a public lecture series on Power Distribution & Control Issues.

OVERVIEW

Operation of a power system, subject to the many constraints that are being imposed on the system operator, requires a massive increase in the quantity and quality of information regarding the status and control of the system. Satisfying this need is often put into the category of substation automation and distribution automation, with the interesting sub-categories of protocols, security, and distributed generation resources.

There are many problems that must be resolved as a utility moves into large-scale use of substation and distribution automation. Some of the more serious problems are outlined, followed by a brief history and current status of protocol development for the transmission of information between substation devices and between substations and control centers. Security issues in communications technology are briefly identified. Finally, the presentation will conclude with a dis-

ussion of the impact of distributed generation resources on the power distribution system.

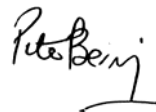
PRESENTER

William J Ackerman

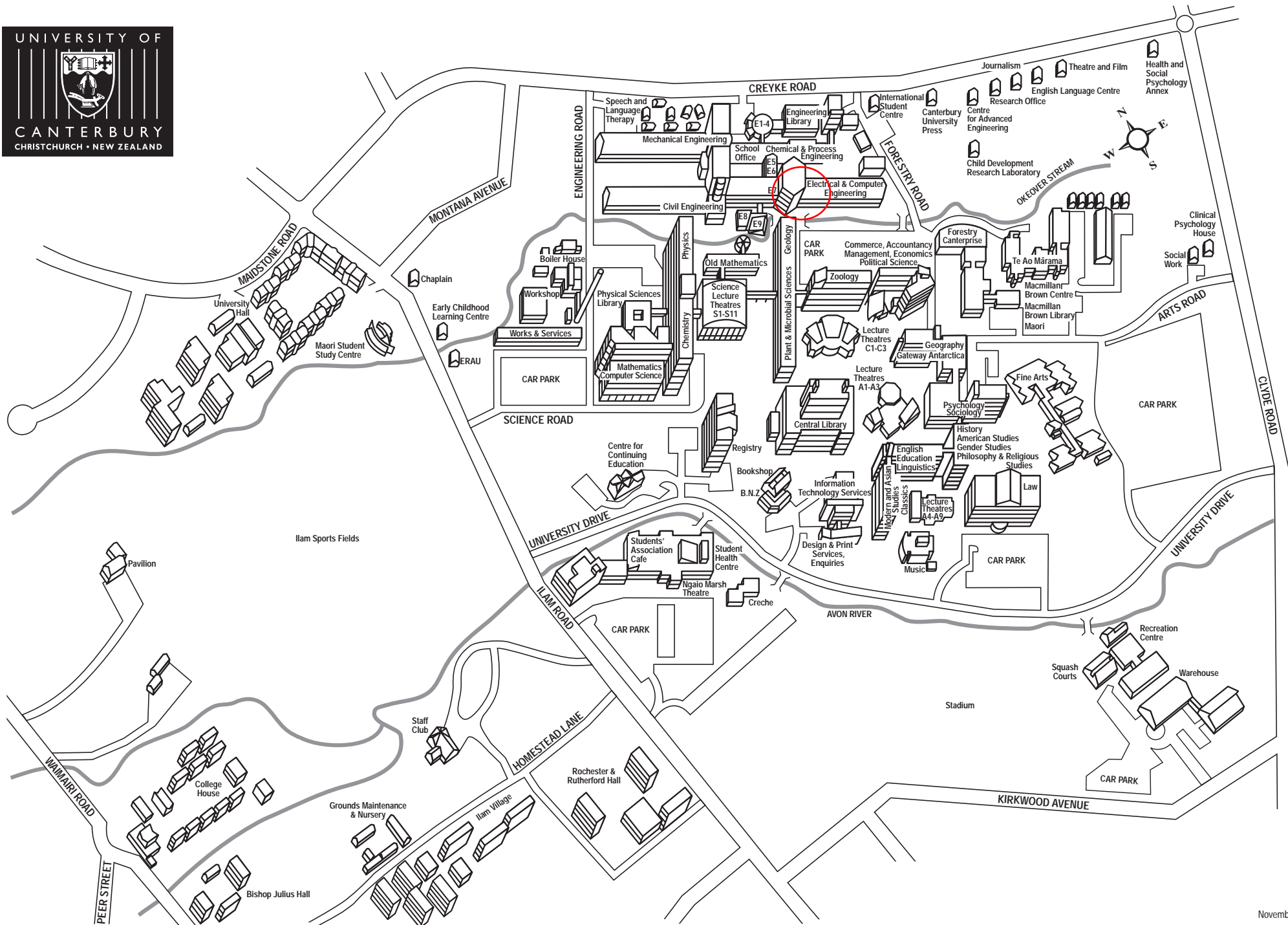
Bill Ackerman started work with Automatic Electric Company on the first solid-state SCADA systems (CONITEL-2000) after receiving his BS and MS degrees in Electrical Engineering. He then worked for Leeds & Northrup Company as Manager of Conitel Systems. He joined Florida Power Corporation in 1973 as Manager of Energy Control Center Operations, responsible for a new Energy Control Center facility, and the EMS computer system for power system generation, interchange and transmission operations. In 1990 he joined ABB as a Project Manager in the Systems Control Division, then transferred to the Substation Automation and Protection Division in 1996, where he was the Manager of Substation Automation Systems until he retired in December 2002. He is now working as an independent consultant.

Bill is a Senior Member of the IEEE and the Power Engineering Society; and a member of the IEEE-PES Distinguished Lecturers Panel. He is past-Chairman of the Substations Committee of the PES, and of the Automatic and Supervisory Systems Subcommittee, and is an active member of the IEEE Standards Advisory Board, and the Standards Working Groups of the PES Substations Committee. He is a member of the US Delegation to TC57 of the International Electrotechnical Commission (IEC).

Bill has authored and co-authored numerous papers, including the IEEE Tutorial, 'Fundamentals of Supervisory Systems'.



Peter Berry
EEA Executive Director





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