

TRIUMF



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**CANADA'S NATIONAL LABORATORY
FOR PARTICLE AND NUCLEAR PHYSICS**

OPERATED AS A JOINT VENTURE

MEMBERS:

THE UNIVERSITY OF ALBERTA
THE UNIVERSITY OF BRITISH COLUMBIA
CARLETON UNIVERSITY
SIMON FRASER UNIVERSITY
THE UNIVERSITY OF VICTORIA

ASSOCIATE MEMBERS:

THE UNIVERSITY OF MANITOBA
McMASTER UNIVERSITY
L'UNIVERSITÉ DE MONTRÉAL
QUEEN'S UNIVERSITY
THE UNIVERSITY OF REGINA
THE UNIVERSITY OF TORONTO

UNDER A CONTRIBUTION FROM THE
NATIONAL RESEARCH COUNCIL OF CANADA

DECEMBER 2003

The contributions on individual experiments in this report are outlines intended to demonstrate the extent of scientific activity at TRIUMF during the past year. The outlines are not publications and often contain preliminary results not intended, or not yet ready, for publication. Material from these reports should not be reproduced or quoted without permission from the authors.

ORGANIZATION

Board of Management (BOM)

The Board of Management of TRIUMF manages the business of the facility and has equal representation from each of the five member universities. The Board met 4 times during the year. At the end of 2002 the Board comprised:

University of Alberta	Dr. W.J. McDonald Dr. A. Noujaim	Chairman
University of British Columbia	Dr. D. Brooks Dr. B. Turrell	
Carleton University	Dr. R. Carnegie Dr. F. Hamdullahpur	
Simon Fraser University	Dr. W.S. Davidson Dr. C.H.W. Jones	
University of Victoria	Dr. R. Keeler Dr. M. Taylor	
Private Sector	Ms. G. Gabel Dr. H. Ing	Environmental Sensors Inc. Bubble Technologies Inc.

Towards the end of 1987, Board membership was expanded in anticipation of a broadening of the TRIUMF joint venture to include a more national representation of Canadian universities long associated with the TRIUMF experimental program. The University of Manitoba and Université de Montréal became associate members, and the University of Toronto joined as an observer. At the end of 1988, University of Toronto's status changed from that of observer to associate member. In March, 1989 the University of Regina became an associate member. In December, 1998 Carleton University and Queen's University became associate members. In March, 2000 Carleton University's status changed from that of associate member to full member. In 2001 two private sector positions were added. In October, 2001 McMaster University became an associate member. Associate membership at year-end:

Non-voting Associate members:	Dr. W.T.H. van Oers	University of Manitoba
	Dr. A.J. Berlinsky	McMaster University
	Dr. C. Leroy	Université de Montréal
	Dr. A. Hallin	Queen's University
	Dr. K. Bergman	University of Regina
	Dr. R. Orr	University of Toronto
<i>ex officio</i> members:	Dr. W. Davidson	National Research Council
	Dr. P. Sinervo	ACOT
	Dr. A. Shotter	Director, TRIUMF
	Dr. J.-M. Poutissou	Associate Director, TRIUMF
	Mr. J. Hanlon	TRIUMF, Recording Secretary

Administration

Under the directorship of Dr. A. Shotter, TRIUMF personnel were grouped into Divisions, with Division Heads as follows:

Division Head, Science Division	J.-M. Poutissou
Division Head, Accelerator Technology Division	E.W. Blackmore
Division Head, Cyclotron Operations Division	G. Dutto
Division Head, Technology Transfer Division	P.L. Gardner
Division Head, ISAC Division	P.W. Schmor
Division Head, Administration Division	A. Shotter

Operating Committee

The TRIUMF Operating Committee is responsible for the operation of the facility. It reports to the Board of Management through its Chairman, the Director, Dr. A. Shotter. The Operating Committee consists of one voting member from each of the five universities, two voting members representing the interests of the Users, and one representing TRIUMF staff. The Associate Director is a non-voting member. The Operating Committee met 6 times in 2002. Members of the committee (alternate members in parentheses) at the end of 2002 were:

Dr. A. Shotter	Chairman	Director	
Dr. J.-M. Poutissou	(<i>ex officio</i>)	Associate Director	
Dr. J. Pinfold		University of Alberta	(TBA)
Dr. G. Oakham		Carleton University	(TBA)
Dr. K.P. Jackson		Simon Fraser University	(Dr. J.M. D'Auria)
Dr. R. Kowalewski		University of Victoria	(Dr. M. Lefebvre)
Dr. D. Bryman		University of British Columbia	(Dr. T. Mattison)
Dr. G.M. Luke		Users	(Dr. J. Sonier)
Dr. S. Yen		Users	(Dr. L. Lee)
Mr. R. Ruegg		TRIUMF Employee Group	(Mr. R. Baartman)
Mr. J. Hanlon	Recording Secretary	TRIUMF	
Dr. W. Davidson	(<i>ex officio</i>)	National Research Council	

NRC Advisory Committee on TRIUMF (ACOT)

The Advisory Committee on TRIUMF advises the National Research Council on all aspects of the TRIUMF program insofar as they relate to the determination and administration of the federal contribution to TRIUMF. The Committee provides scientific program advice to the Director of TRIUMF. The Committee reports to the National Research Council each year on its findings and recommendations, with particular reference to the arrangement entered into by the National Research Council and TRIUMF under which contribution payments are made, thereby ensuring that TRIUMF utilizes its program in support of its defined role as a national facility and works with all constituencies of the Canadian subatomic physics community to sustain a national program in the field of research, within the context of the funds available.

Dr. P. Sinervo	Chairman	University of Toronto
Dr. W. Davidson	Secretary	National Research Council
Dr. J. Äystö		University of Jyväskylä
Dr. W.J.L. Buyers		National Research Council
Dr. A. Fenster		J.P. Robarts Research Institute
Dr. J. Guigné		Guigné International Ltd.
Dr. G. Kalmus		Rutherford Appleton Laboratory
Dr. W. Nazarewicz		University of Tennessee
Dr. C. Rolfs		Ruhr-Universität Bochum
Dr. J. Siegrist		University of California, Berkeley
Dr. P. Vincett		FairCopy Services Inc.
Dr. R. Keeler	(<i>ex officio</i>)	University of Victoria
Dr. N. Lockyer	(<i>ex officio</i>)	University of Pennsylvania
Dr. W.J. McDonald	(<i>ex officio</i>)	University of Alberta
Ms. K. Wilson	(<i>ex officio</i>)	Natural Sciences and Engineering Research Council

Agency Committee on TRIUMF (ACT)

The role of the Agency Committee on TRIUMF is to oversee the Government of Canada's investment in TRIUMF and the economic benefits derived from that investment, with a particular focus on financial and commercialization matters. The Committee provides advice to the Minister of Industry, in conjunction with the reports of the NRC Advisory Committee on TRIUMF on scientific matters. The Agency Committee on TRIUMF usually meets twice a year.

Dr. A.J. Carty	Chairman	President, National Research Council
Dr. T. Brzustowski		President, Natural Sciences and Engineering Research Council
Mr. V.P. Harder		Deputy Minister, Industry Canada
Dr. W. Davidson	Secretary	National Research Council

TRIUMF Safety Management Committee

Dr. A. Shotter		Director, TRIUMF
Dr. J.-M. Poutissou		Associate Director/Head, Science Division
Dr. E.W. Blackmore		Head, Accelerator Technology Division
Dr. G. Dutto		Head, Cyclotron Operations Division
Mr. P.L. Gardner		Head, Technology Transfer Division
Dr. P.W. Schmor		Head, ISAC Division
Mr. M. Stenning		Head, Operations Group
Mr. D. Preddy		TAPC Chairman
Mr. G. Wood		Industrial Safety Officer/TAPC
Mr. L. Moritz		Head, Environmental Health & Safety
Mr. J. Hanlon		Manager, Human Resources & Administration
Dr. S. Zeisler		Head, Applied Technology Group
Dr. B. Abeysekera		MDS-Nordion
Mrs. K. Gildert	Recording Secretary	

Experiments Evaluation Committees (EEC)

In July, 1994 the Experiments Evaluation Committee was formally split into two committees representing subatomic physics and μ SR physics. In 2000 the μ SR Committee changed its name to the Materials Science Committee. In 2002 these committees comprised:

Subatomic Committee:

Dr. I.S. Townner	Chairman	Queen's University
Dr. J.-M. Poutissou	Associate Director/ <i>(ex officio)</i>	TRIUMF
Dr. B. Jennings	Secretary	TRIUMF
Dr. J.H. Brewer	<i>(ex officio)</i>	TUEC Past Chairman/UBC
Dr. S.J. Freedman		Lawrence Berkeley Laboratory
Dr. H.-O. Meyer		Indiana University
Dr. B.M. Sherrill		NSCL/Michigan State University
Dr. F.K. Thielemann		Universität Basel

Materials Science Committee:

Dr. I.K. Affleck	Chairman	Boston University
Dr. J.-M. Poutissou	Associate Director/ <i>(ex officio)</i>	TRIUMF
Dr. P.W. Percival	Secretary/ <i>(ex officio)</i>	SFU/TRIUMF
Dr. G.M. Luke	<i>(ex officio)</i>	TUEC Chairman/McMaster University
Dr. S.F.J. Cox		Rutherford Appleton Laboratory
Dr. B. Gaulin		McMaster University
Dr. S. Roorda		Université de Montréal
Dr. G.A. Sawatzky		University of British Columbia
Dr. T.W. Swaddle		University of Calgary

Life Sciences Project Evaluation Committee (LSPEC)

Dr. A. Fenster	Chairman	J.P. Robarts Research Institute
Dr. J.-M. Poutissou	Associate Director/ <i>(ex officio)</i>	TRIUMF
Dr. L.P. Robertson	Secretary	University of Victoria
Dr. R.F. Dannals		Johns Hopkins PET Center
Dr. S. Houle		PET Center – CAMH/University of Toronto
Dr. J. Link		University of Washington
Dr. A.J.B. McEwan		Cross Cancer Clinic
Dr. C.J. Thompson		Montreal Neurological Institute, McGill University