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CANADA'S NATIONAL LABORATORY
FOR PARTICLE AND NUCLEAR PHYSICS

OPERATED AS A JOINT VENTURE

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UNDER A CONTRIBUTION FROM THE
NATIONAL RESEARCH COUNCIL OF CANADA

OCTOBER 2001

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.

USERS GROUPS

TRIUMF USERS' GROUP

From the TRIUMF Users' Group Charter:

The TRIUMF Users' Group is an organization of scientists and engineers with special interest in the use of the TRIUMF facility. Its purpose is:

(a) to provide a formal means for exchange of information relating to the development and use of the facility;

(b) to advise members of the entire TRIUMF organization of projects and facilities available;

(c) to provide an entity responsive to the representations of its members for offering advice and counsel to the TRIUMF management on operating policy and facilities.

Membership of the TRIUMF Users' Group (TUG) is open to all scientists and engineers interested in the TRIUMF program.

At the end of 2000, following a mandatory membership renewal in which members were asked to provide more detailed information about their interests and affiliations, TUG had 235 newly reconfirmed members from 11 countries.

TRIUMF Users' Executive Committee (TUEC)

The TRIUMF Users' Executive Committee (TUEC) is a committee of elected members whose role is to represent the interests of TUG to the TRIUMF administration.

Among other things, TUEC maintains the TUG Web site at http://www.triumf.ca/tug/ where detailed information is available about its membership, that of related committees, and various TUG activities.

TUEC Membership for 2000

J.H. Brewer	UBC	*Chair*
N. Rodning	U. Alberta	*Chair-elect*
J.M. D'Auria	SFU	*Past-chair*
G.M. Marshall	TRIUMF	1999/2000
B. Turrell	UBC	1999/2000
R. Helmer	TRIUMF	2000/2001
A.K. Opper	Ohio U.	2000/2001
M. Comyn	TRIUMF	*Liaison Officer*

G.M. Luke (McMaster U.) was elected as chair-elect for 2001. G.D. Morris (TRIUMF) and W.D. Ramsay (U. Manitoba) were elected as members for 2001/2002.

In addition, TUEC selected two members to represent the Users on the TRIUMF Operating Committee: J. Vincent (TRIUMF) and E. Mathie (U. Regina) with alternates G.M. Marshall (TRIUMF) and G.M. Luke (McMaster U.), respectively. G.M. Marshall replaced J. Vincent in mid-2000 with S. Yen (TRIUMF) becoming the alternate.

User Survey

Results of the Web-based survey of User interests and priorities conducted in conjunction with the mandatory 2000 membership renewal can be viewed at http://www.triumf.ca/tug/new/tugstats.php . The results at year end were:

Number with non-blank *topics*: 223
Number with non-blank *facil*: 178
Number with non-zero *OffSite* research: 145
Average *OffSite* = 70.8%
Total *OffSite* FTE = 102.6

Research Topics

Topic	# listed in *topics*	# with non-zero %	Average non-zero %	Total FTE
Sym	63	69	35.5	24.5
HEP	50	51	56.7	28.9
IEP	60	62	43.8	27.2
LENP	72	76	39.1	29.7
NAP	60	64	46.2	29.6
Acc	34	35	43.6	15.3
CMP	50	52	57.4	29.8
Chem	34	37	45.8	16.9
Life	24	25	50.8	12.7
Appl	37	37	59.2	21.9
Eng	20	21	29.3	6.2
OthTop	23	23	49.9	11.5

where

Sym	=	fundamental symmetries
HEP	=	high energy (> 10 GeV) particle physics
IEP	=	int. energy (< 10 GeV) particle physics
LENP	=	low energy nuclear physics
NAP	=	nuclear astrophysics
Acc	=	accelerator physics
CMP	=	condensed matter physics
Chem	=	atomic physics and chemistry
Life	=	life sciences
Appl	=	applied program
Eng	=	engineering
OthTop	=	other topic

TRIUMF Facilities

Facility	# listed in *facil*	# with non-zero %	Average non-zero %	Total FTE
CHAOS	12	12	68.8	8.3
TWIST	21	23	58.7	13.5
pPol	11	11	43.9	4.8
pSpect	8	8	46.3	3.7
pThpy	14	14	63.9	9.0
Isot	13	13	78.8	10.3
LEISAC	32	33	51.2	16.9
HEISAC	30	32	55.0	17.6
TRINAT	11	12	46.9	5.6
muSR	38	40	75.3	30.1
bNMR	14	16	29.4	4.7
LTNO	12	12	86.7	10.4
Det	30	32	40.8	13.1
AccTech	16	16	30.9	5.0
Comp	46	47	58.7	27.6
OthFac	31	33	66.2	21.9

where

CHAOS	=	CHAOS pion spectrometer
TWIST	=	TRIUMF Weak Int. Symmetry Test
pPol	=	polarized proton beams
pSpect	=	proton spectrometers (MRS, SASP)
pThpy	=	proton therapy (BL1B)
Isot	=	isotope production (medical & other)
LEISAC	=	Low Energy ISAC spectrom. + TISOL
HEISAC	=	High E ISAC (*e.g.* DRAGON, TUDA)
TRINAT	=	TRIUMF Neutral Atom Trap
muSR	=	μSR User Facility
bNMR	=	β-NMR facility
LTNO	=	Low Temp. Nuclear Orientation
Det	=	detector construction (incl. scint.)
AccTech	=	accelerator technology
Comp	=	TRIUMF computing facilities (DAC)
OthFac	=	other facilities at TRIUMF

μSR USERS GROUP

Full details regarding the μSR Users Group and μSR facilities can be obtained via the WWW at http://musr.triumf.ca/users/.