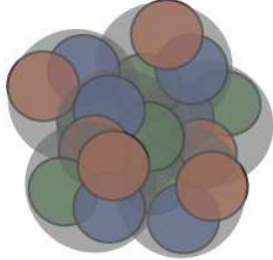


C I N P



I C P N

**Canadian Institute of  
Nuclear Physics**

**Institut canadien de  
physique nucléaire**

**2021 Individual Members AGM**

**June 11, 2021**

**Virtually by Zoom**

# Agenda

---

1. **Executive Director's report**
2. **Financial Report**
  - Prepared by Greg Hackman
3. **SAP MRS Resources**
  - Fabrice Retiere
4. **TRIUMF 20 Year Plan**
  - Reiner Kruecken
5. **Comments and Suggestions from Membership**
6. **Adjourn to Virtual DNP Business Meeting**

# What is the CINP?

- The CINP is a formal organization of the Canadian nuclear physics research community to promote excellence in nuclear research and education, and to advocate the interests and goals of the community both domestically and abroad.
  - Federally incorporated under the Canada Not-for-profit Corporations Act.
- Represents researchers covering all aspects of experimental and theoretical nuclear physics. Co-ordinates planning on a national scale and exchanges information within and between the various sub-fields of nuclear physics.
- Leads initiatives to strengthen the level and quality of nuclear physics research in Canada, including fellowships, undergraduate research scholarships, student travel awards, and targeted conference support.

# CINP Membership Classes



## INDIVIDUAL MEMBERS

- Open to any resident of Canada who has sufficient training and competence in the discipline of Nuclear Physics to enable the individual to play a significant role in the activities of the Institute.
- No dues or assessments.

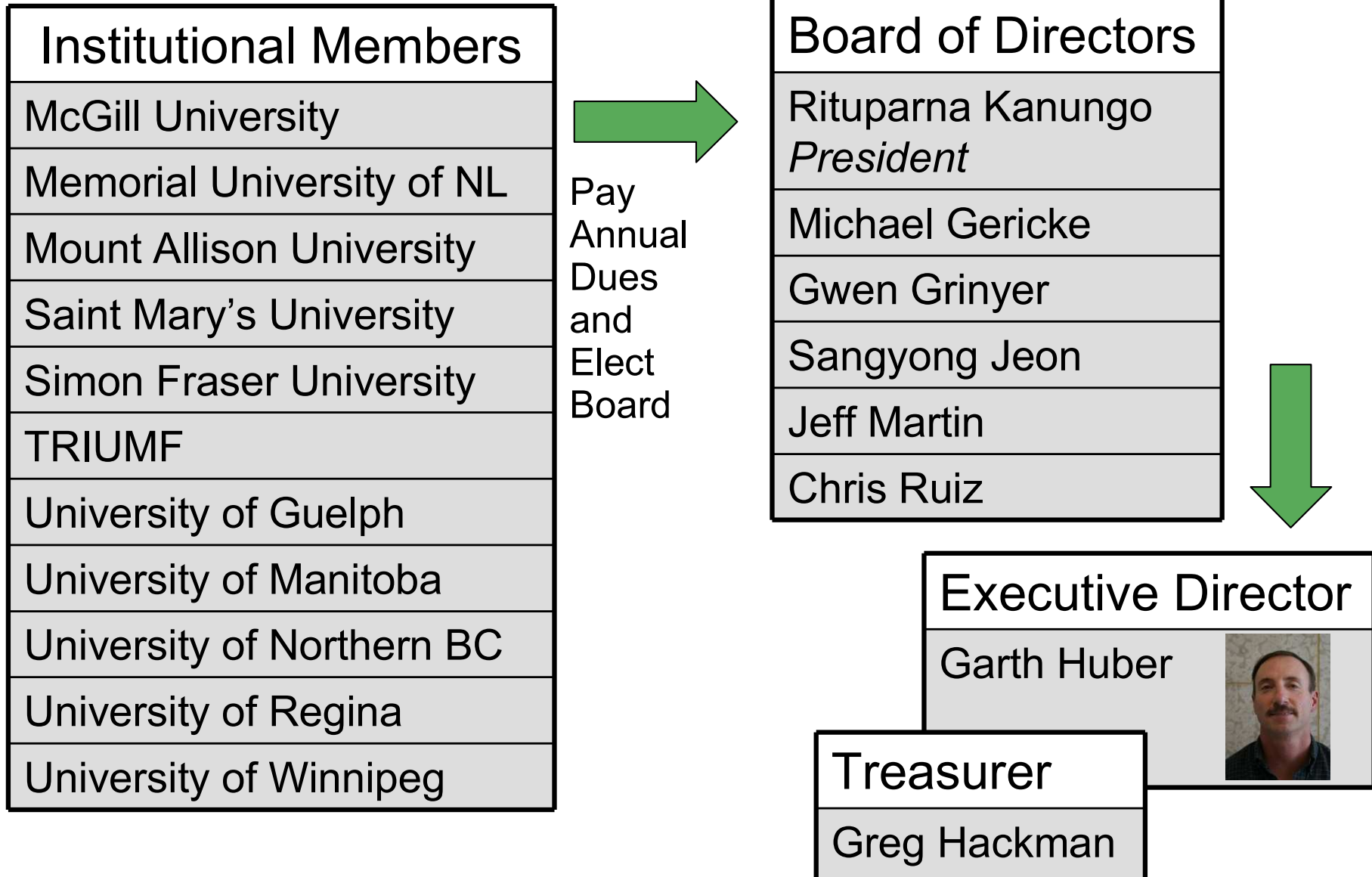
## INSTITUTIONAL MEMBERS

- Universities and laboratories which are actively involved in academic research in Nuclear Physics.
- Meet annually to elect the Directors of the Institute.
- Must pay annual dues as levied by the Board of Directors.

## ASSOCIATE MEMBERS

- Industrial corporations, charitable organizations, etc. with staff members who have expertise in Nuclear Physics.
- Recognition will be based on annual donations.
- Qualified staff members permitted to attend Institute activities.

# CINP Governance



# Welcome to New Institutional Members



SIMON FRASER  
UNIVERSITY

- SFU applied for membership on Jan 11
- Two faculty and four associate members



- MUN applied for membership on March 4
- Two faculty members

**If you are interested in having your university apply for membership, please contact the Executive Director**

# CINP Individual Membership

- Net gain of 15 members since last year
  - 15 new Associate Members offset by net loss of 5 due to leaving field and transfers between Associate and Faculty status
  - 9 new Faculty Members offset by loss of 4
- Please encourage your grad students and PDFs to join and contribute to the activities of the CINP!

## New Faculty Members:

S. Menary (York)	R. Thompson (Calgary)
T. Friesen (Calgary)	S. Caron-Huot (McGill)
M. Pearson (TRIUMF)	T. Momose (UBC)
R. Kliev (Thompson Rivers)	
P. Kunz (TRIUMF)	

## New Associate Members:

A. Teigelhoefer (TRIUMF)	W. Klassen (UBC)
M. Junaid (Regina)	H. Rasiwala (McGill)
R. Caballero-Folch (TRIUMF)	B. Knight (Guelph)
G. Leckenby (TRIUMF)	N. Fortier (McGill)
S. Upadhyayula (TRIUMF)	M. Mendes (McGill)
M. Mubasher (Alberta)	S. Guichandut (McGill)
N. Heinrich (Regina)	F. Gorgannejad (Manitoba)
J. Churchill (McGill)	
E. Lykiardopoulou (UBC)	

	Now	1 Year Ago	Change
As of May 1, 2021			
<b>Faculty Level</b>	<b>84</b>	<b>79</b>	<b>+5</b>
<b>Associate</b>	<b>60</b>	<b>50</b>	<b>+10</b>
<b>Experiment Major Interest</b>	<b>108</b>	<b>101</b>	<b>+7</b>
<b>Theory Major Interest</b>	<b>35</b>	<b>27</b>	<b>+8</b>

# Scientific Working Groups

Working Group	Members	Chair
Nuclear Astrophysics	54	Iris Dillmann (TRIUMF)
Nuclear Structure	58	Adam Garnsworthy (TRIUMF)
Fundamental Symmetries	63	Gerald Gwinner (Manitoba)
Hadrons/QCD	50	Svetlana Barkanova (Memorial)
Nuclear Physics Education & Training	40	Juliette Mammei (Manitoba)

## New for 2021:

- An EDI component was added to the Terms of Reference for the Education & Training SWG
  - Thanks to Juliette Mammei for leading this initiative!
- **New Nuclear Theory SWG!**
  - Proposed during CINP LRP White Paper writing
  - Officially created by CINP Board on March 29
  - 17 Faculty members so far. SWG will be opened to Associate Members shortly
  - **Alexandros Gezerlis** (Guelph) has been elected as Chair



# CINP 2020–21 Accomplishments



## • Nuclear Physics Representation

- The CINP has been vital in giving the nuclear physics community a coherent and strong voice
- One of 3 commissioning bodies (with NSERC and IPP) of the Canadian Subatomic Physics Long Range Plan
- Joint CINP+IPP “Context Document” for SAPES Fall Policy Meeting
- NP Community Representative at Advisory Committee on TRIUMF (ACOT), spring and fall annually
- Pan-Canadian MRS Coordination Board
- White Paper on *Canada’s Future DRI Ecosystem* (with IPP), Dec 12
- Joint letter (with IPP) on April 15 protesting closure of Laurentian University physics program to Ontario, Federal and Local officials
- Letter of support for nEXO at SNOLAB on May 10
- Formal observer to NuPECC (Nuclear Physics European Collaboration Committee)

# CINP 2020–21 Accomplishments



## • Community Outreach

- CINP facilitates new connections and allows the disparate Canadian nuclear physics community to develop a common identity
- CINP website <http://cinp.ca/> content added regularly
- 2 Newsletters annually

The screenshot shows the CINP website homepage. At the top left is the CINP ICPN logo. To its right is the text "Canadian Institute of Nuclear Physics" and "Institut Canadien de Physique Nucléaire". Below this is a navigation menu with links for Home, About CINP, Nuclear Physics, Programs, Outreach, Membership, and Governance. On the left side, there are three main sections: "Information and News" with links for Jobs/Announcements, Newsletters, Conference Support, AGM slides, and CINP White Papers; "Scientific Working Groups" with links for Overview, Nuclear Astrophysics, Nuclear Structure, Fundamental Symmetries, Hadronic Physics/QCD, and Education and Training; and "Important Links" with links for Subatomic Physics Long Range Plan, NSERC News, SAPES Chair Reports (2010-), GSC-19 Chair Reports (2001-09), and IUPAP Working Group WG.9. In the center is a large image of the GRIFFIN detector with the caption "GRIFFIN with DESCANT and SCEPTAR". Below the image is a row of seven dots, with the first one filled. At the bottom of the page is a footer with the text: "The Canadian Institute of Nuclear Physics is a formal organization of the Canadian nuclear physics research community to promote excellence in nuclear research and education, and to advocate the interests and goals of the community both domestically and abroad."



## Canadian Institute of Nuclear Physics Institut canadien de physique nucléaire

Newsletter #13, November 2018

*The Canadian Institute of Nuclear Physics (CINP) is a formal organization of the Canadian nuclear physics research community to promote excellence in nuclear research and education, and to advocate the interests and goals of the community both domestically and abroad.*

### 1. CINP Board of Directors (2018-19)

The CINP Institutional Members had their annual meeting via teleconference on May 4, 2018. One of the agenda items was to elect two new Board members. The new Board is listed below, along with their assigned responsibilities.

Name	Institution	Role	E-mail	Term Ends
Michael Gericke	University of Manitoba		mgericke@physics.umanitoba.ca	June, 2020
GF Grinyer	University of Regina		gf.grinyer@uregina.ca	June, 2021
Sangyong Jeon	McGill University	Secretary	jeon@physics.mcgill.ca	June, 2019
Ritupama Kanungo	Saint Mary's University	President	ritu@triumf.ca	June, 2019

### 2. Undergraduate Student Conference Support

The CINP awarded four \$500 travel grants to support undergraduate students giving talks on nuclear physics related projects at the 2018 Canadian Undergraduate Physics Conference (CUPC) held at the University of Alberta in Edmonton, AB on August 15-18, 2018. The applications were evaluated by: Drs. Chris Ruiz (TRIUMF) and Garth Huber (Regina/CINP).

Student	Supervisor	CUPC Talk Title
Antoine Belley (McGill)	Thomas Brunner (McGill)	Development of an electroluminescent light source to characterize SiPMs for nEXO
Dixin Chen	Thomas Brunner	Performing experiments on a laser ablation ion

# CINP 2020–21 Accomplishments



- **CINP Undergraduate Research Scholarships (URS)**

- A supervisor can nominate only their best student for the award.
- \$5k student stipend which must be matched by supervisor to at least \$9k
- \$1300 travel supplement available if the supervisor intends to send the student to a laboratory or to work with a second collaborator for an extended period

- **CINP URS is complementary to the NSERC USRA in several key aspects:**

- 1) Gifted international students studying in Canada are eligible to apply for the CINP URS, but not the NSERC USRA
- 2) An important element of the URS is the optional Travel Award, which allows the supervisor to send student to a lab or work with second collaborator for an extended period. This can have a significant impact on the quality of the research experience for some undergrads. The NSERC USRA has no such component.

# CINP 2020–21 Accomplishments



## 2021 CINP Undergraduate Research Scholarships

Student	Supervisor	Project Title
Kiera Augusto (Winnipeg)	Jeff Martin (Winnipeg)	Fiber optic magnetometer for TUCAN EDM experiment
Gabriel Desmarais (Saint Mary's)	Greg Christian (Saint Mary's)	Spectroscopic factors of excited states in $^{24}\text{Na}$ and their relevance for the $^{23}\text{Mg}(p,\gamma)^{24}\text{Al}$ reaction in classical novae and type-1 X-ray bursts
Monica Figueroa (Alberta)	Andrzej Czarnecki (Alberta)	Decays of pionic atoms resulting in muonic atom
Emma Klemets (McGill)	Thomas Brunner (McGill)	Optimization of the nEXO muon veto
Colby O'Keefe (Saint Mary's)	Rituparna Kanungo (Saint Mary's)	Investigation of the structure of neutron-rich nuclei
Hrishikesh Patel (UBC)	Jason Holt (TRIUMF)	Ab-initio calculations of atomic systems for major problems in nuclear physics

- **10 applications were received**
- **Selection Committee: Juliette Mammei (Manitoba), Chris Ruiz (TRIUMF), GH (Exec Dir)**

# CINP 2020–21 Accomplishments



## • CINP Graduate Fellowship

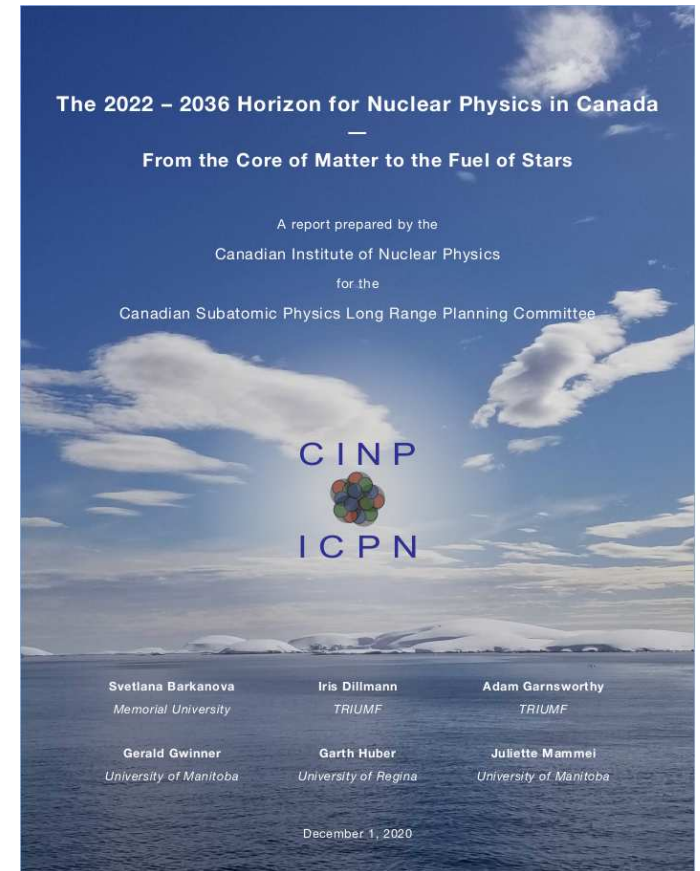
- **New initiative for 2021**
- **\$12,000 fellowship to PhD student of high merit**
- In addition to academic and scientific criteria, the application has an EDI component, where applicants wrote a 1 page description of what role a PhD student and Graduate Fellow can play in promoting and advancing EDI in our community
- 14 applications were received for fellowship, competition very tight
- **Selection Committee:** Gwen Grinyer (Regina), Svetlana Barkanova (Memorial), David Hornidge (Mt. Allison)
- **Recipient: Jessica Churchill (McGill)**
  - BSc Magna Cum Laude Honours Physics, Saint Mary's, 2016
  - MSc McGill, 2018 "Photons and Dileptons as Probes of Early-Time Dynamics in Relativistic Heavy-Ion Collisions"
  - PhD student under supervision of Charles Gale
- CINP anticipates expanding the program to two \$12,000 fellowships in future years



# CINP role in 2022–26 Long Range Plan



- We would like to thank all those who contributed to the long range planning document *The 2022-2036 Horizon for Nuclear Physics in Canada: From the Core of Matter to the Fuel of Stars*
- Process overseen by the White Report Committee, which consisted of the 5 SWG Chairs and the Exec.Dir.
- 33 written briefs received from CINP members, up from 28 in 2015
- Two virtual Town Hall meetings were held: June 22-23, and October 26
- Final document submitted to LRPC on December 1
- Available from <https://cinp.ca>



# CINP 2020–21 Accomplishments



- **COVID-19 Impacts were considerable on many programs**
- **Canadian Undergraduate Physics Conference (CUPC)**
  - Instead of the usual Student Travel Awards program, we offered a named student prize
- **Winter Nuclear and Particle Physics Conference (WNPPC)**
  - Instead of the Student Travel Awards program, we offered enhanced student prizes of 4x\$500
- **Conference Support and Junior Scientist Travel Programs**
  - No funds awarded in 2020-21. Several conference applications have been carried forward to future years
- **CINP has a multi-year budget plan, where any unexpended funds will be used to enhance programs when circumstances allow**

# CINP NSERC Expenditures

– Prepared by Greg Hackman



FY20 (preliminary)	
FY19 Carry Forward	18,918
FY20 Installment	85,000
Late FY19 Expenses	600
Representation Travel	0
Long Range Plan	12,166
Conference Sponsorship	0
Undergrad Scholarships	20,000
URS Travel Supplement	0
Junior Scientist Travel	0
Student Conf Support	0
Recruitment	2,950
Misc	222
<b>FY20 Expenses</b>	<b>35,938</b>

FY21 (budgeted)	
FY21 Installment	75,000
Late FY20 Expenses	5,630
Representation Travel	
ACOT (1 trip)	1,400
Other domestic	1,400
International	5,000
Long Range Plan	1,350
Conference Sponsorship	7,000
Undergrad Scholarships	30,000
URS Travel Supplement	2,600
Graduate Fellowship	12,000
Junior Scientist Travel	6,000
Student Conf Support	7,200
Recruitment	1,750
Misc	1,100
<b>FY21 Total</b>	<b>82,430</b>



# CINP Private Account

– Prepared by Greg Hackman



FY20 (preliminary)	
FY19 Carry forward	\$43,203
FY20 Dues assessed	\$22,000
Receivables (dues owed)	\$1,500
Executive Director	\$24,000
Finance Expenses	
Prior Year Audits	\$15,540
Bank	\$0
Industry Canada	\$0
Misc	\$173
<b>Total FY20 Expenses</b>	<b>\$39,713</b>
<b>Year End Balance</b>	<b>\$26,990</b>

FY21 (budgeted)	
<b>FY21 Dues assessed</b>	<b>\$24,000</b>
<b>Executive Director</b>	<b>\$24,000</b>
<b>Finance Expenses</b>	
Audit	\$3,500
Bank	\$100
Industry Canada	\$20
<b>Total FY21 Expenses</b>	<b>\$27,620</b>

- Upon advice of Shirley Reeve (formerly of TRIUMF), we got caught up on backlog of legally–required CRA filings, 2015-2021, in the last year
- CPA: Dudley & Company LLP, Regina

# Agenda Items

---

## 3. SAP MRS Resources

- Fabrice Retiere

## 4. TRIUMF 20 Year Plan

- Reiner Kruecken

## 5. Comments & Suggestions

## 6. Adjourn to Virtual DNP Business Meeting