



THE CANADIAN ACADEMY OF ENGINEERING
Leadership in Engineering Advice for Canada

L'ACADÉMIE CANADIENNE DU GÉNIE
Chef de file en matière d'expertise-conseil en génie pour le Canada

The Canadian Academy of Engineering (CAE)

September 11, 2018 Draft

Who we are?

- **Founded** 1987
- **Corporate** Not-for-profit, independent, self-governing
- **Funding** Fellow dues, donations, sponsorships
- **Kinship** Royal Society of Canada
Canadian Academy of Health Sciences
Council of Canadian Academies
- **Member** International Council of Academies of Engineering and Technological Sciences (CAETS)

What we do?

○ Vision

- The CAE is recognized for its application of engineering principles in the interests of Canada and its enterprises

○ Mission

1. Honour “Canada’s most distinguished and experienced engineers”
2. Fellows “provide strategic advice on matters of critical importance to Canada”

2018 Survey of Fellows

- Survey objectives
 - Understand the aspiration of our Fellows for the work and future of the CAE
 - Gauge the interest of our Fellows in participating in the activities of the CAE
 - Shape a portfolio of initiatives that will help Canada adjust to a more advanced technological future
- Survey ran from July 24 to August 17, 2018

2018 Survey of Fellows

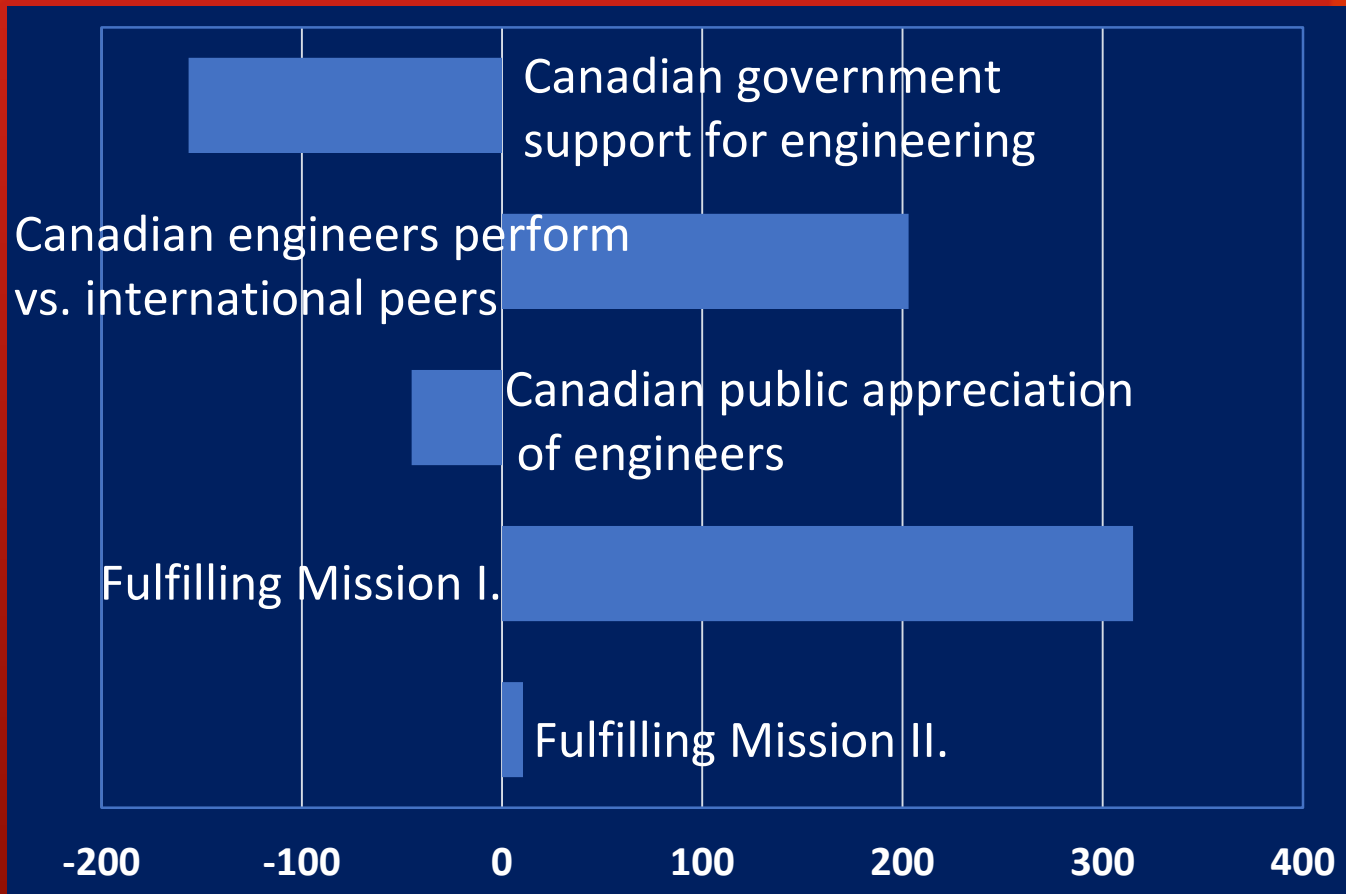
- By the numbers
 - 151 of 748 Fellows responded (20%)*
 - 4 did not respond to every question
 - 35 Fellows started but didn't complete the survey
 - 86% of respondents identified as male
 - 5% as persons with disability
 - 1% as indigenous

**22% is typical for organizations like the CAE (Survey Gizmo)*

2018 Survey – Illustrating the results

- Direction indicators for slides that follow
 - 5 points for strongly positive
 - 3 points for positive
 - -3 points for negative
 - -5 points for strongly negative
- Rating of themes by priority - values normalized

2018 Survey of Fellows - 1



Target Assignment of Resources

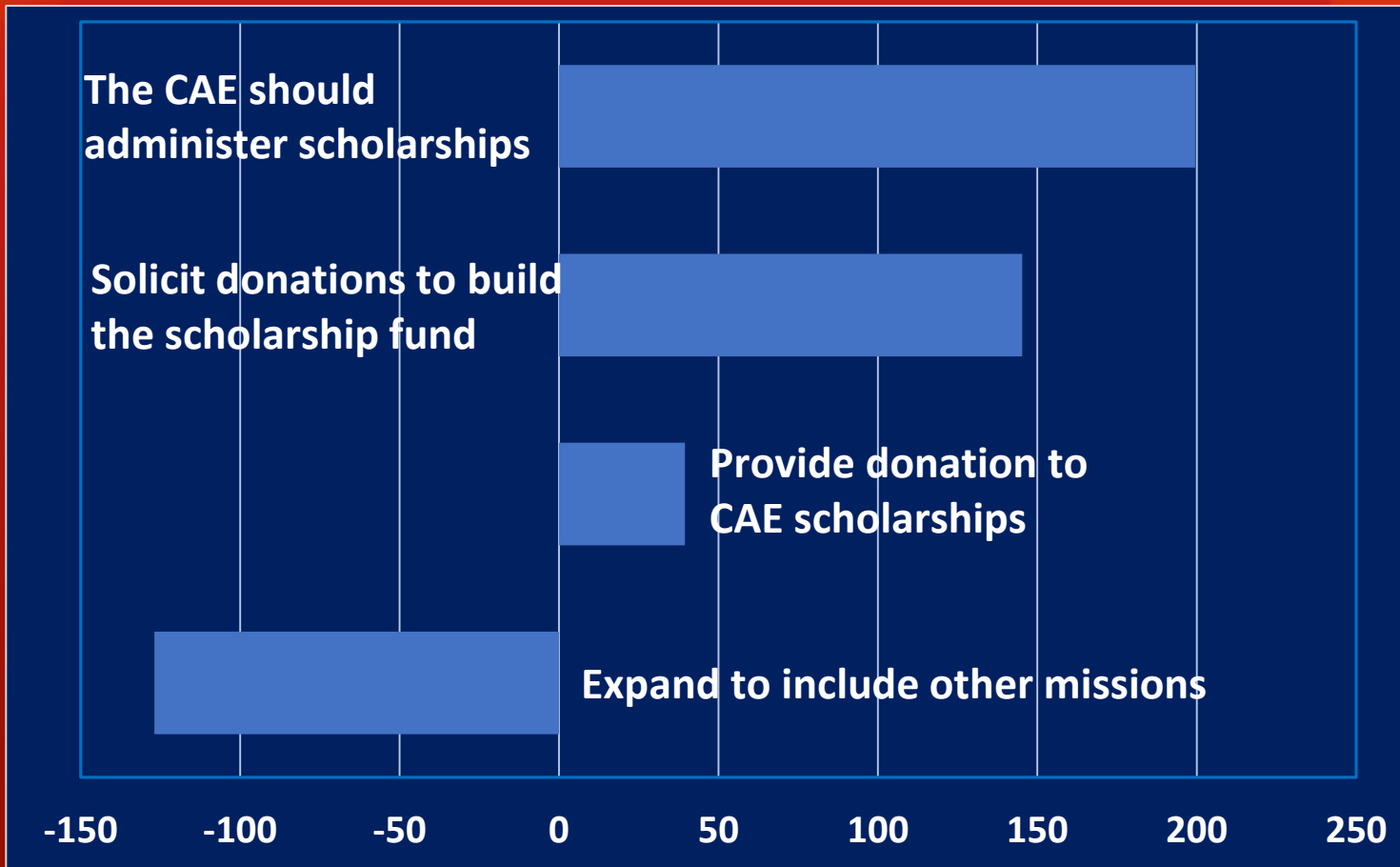
Mission I.

Mission II.

~40%

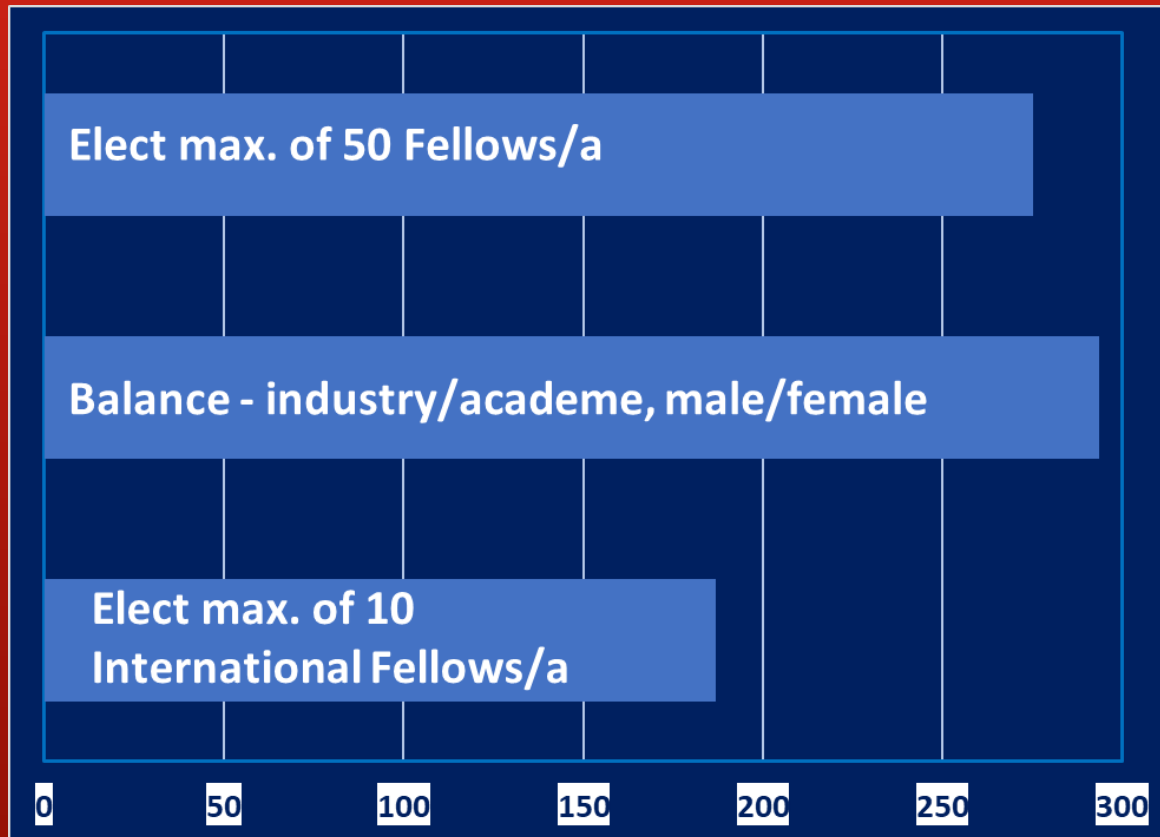
~60%

2018 Survey of Fellows - 2



- 52% would consider providing donation to CAE scholarship fund

2018 Survey – Support CAE strategy



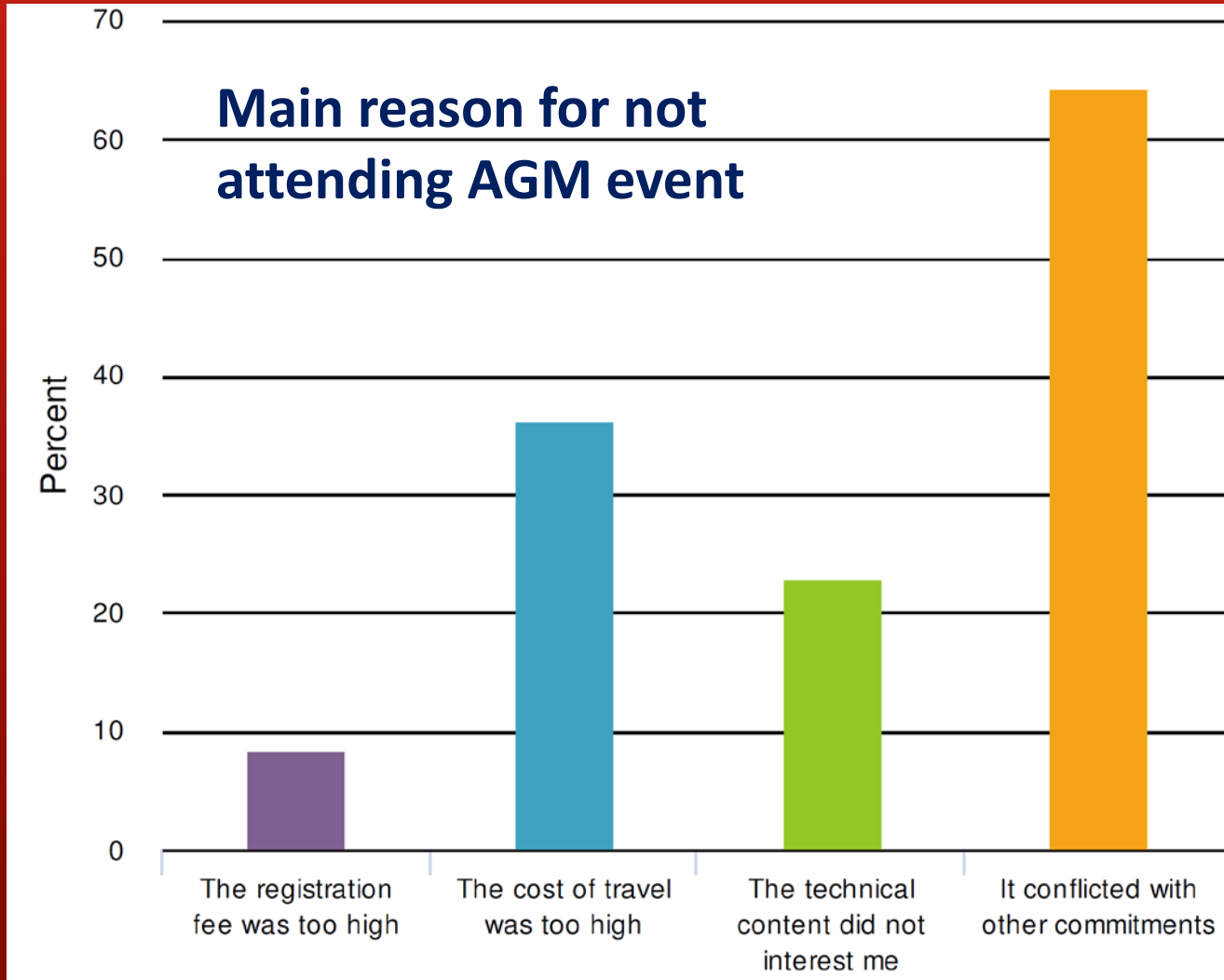
- 56% nominated at least 1 candidate in past 5 years
- 55% voted in at least 1 election in past 5 years
- 65% plan to nominate candidates in the coming year

2018 Survey – Research priorities

Future Topics → Informing public policy	Priority
Educating the next generation of Canadian engineers	1.0
Engineering approaches to climate change adaptation	0.94
Advancing an industrial strategy for Canada	0.90
Transformations in Canada over next 50 Years; What does this mean for Canada's Engineers?	0.81
Future transportation needs and transport automation	0.81
Assess pathways to meet Canada's climate targets	0.73
Economic growth and the low carbon economy	0.70
Nation building projects. Can we make them happen?	0.62
Landfill-free - progress towards zero avoidable waste	0.52
Toward a zero carbon built environment in Canada	0.30

2018 Survey –AGM events

- 57% attended an AGM during the past 5 years
- 93% prefer the 1 day format (AGM + Symposium + Induction Dinner)



2018 Survey – CCA and CAETS

Issue	In Favour
Fellows interest in participation on CCA expert panels	57%
Fellows interest in participation in international activities of the CAE such as CAETS	56%
Fellows that can draw on own resources for travel if CAE able to only provide partial funding	33%

CCA - Council of Canadian Academies

CAETS - Council of Academies of Engineering and Technological Sciences

2018 Survey – CAE Reports

Issue	In Favour
Awareness of CAE Reports	86% yes
Subject matter of reports to execute CAE's mission	86%
Expand CAE research projects by partnering	82%
Fellows interest in participating in research initiatives of the CAE	70%
Fellows interest in participating in research initiatives of the CAE that includes fund raising	17%
Fellows interest in participating in peer reviews for CAE projects	71%
Fellows interest in dissemination of results of CAE projects includes meeting government officials	32%

2018 Survey - Rating activities of a local sections of the CAE

Activities of local sections	Priority
Networking with members	1.0
Guest speakers	0.94
Policy discussion	0.77
Recognition events	0.45

2018 Survey – Local Sections

Issues that could be addressed by local sections	Priority
Research and Innovation	1.0
Energy	0.77
Environment	0.74
Entrepreneurship	0.69
Public Infrastructure	0.52
Engineering Labour Market Supply	0.26

2018 Survey – Local Sections

Issues for local sections	In Favour
Non-CAE members should be invited to some section events	89%
Fellows interested in participating in a local section	72%
Fellows interested in developing a local section	21%
Fellows who would volunteer to help organize the AGM and events held in their region	42%

Where do we go from here?

1. Receive feedback and advice on the survey results from Fellows
2. Ensure the Board considers the results in decision making
3. Report back to Fellows at the 2019 AGM in Quebec City on progress to implement the directions provided by the Survey



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