



Education Director Activities February to June 2016

Michael Inggs

Department of Electrical Engineering
University of Cape Town, Rondebosch 7701
South Africa

Contact e-mail: mikings@gmail.com
URL: <http://www.rrsg.uct.ac.za>



Agenda 4.2.1 Education Team



2016 Education Team Developments

- African Caravan support:
 - Chuck Luther with Hussein Farah, with Colin Schwegman being introduced.
- Summer Schools
 - Lori Bruce to assist with the GR4S LOC. 2017 to be first GR4S.
- Quarterly Magazine Column
 - Linda Hayden responsible.
- Education Web presence
 - Currently Mike Inggs



Agenda 4.2.4 Action and new items



Summary

- E2 AARSE / GRSS African Scholars Fund (Annual)
- E4 Education Portal (ongoing)
- E5 African Caravans (See Globalisation)
- E6 Education Column for Magazine (Quarterly)
- E7 GR4S Summer School (annual and ad hoc)



E2 AARSE / GRSS African Scholars Travel Fund

Objective	<ul style="list-style-type: none">• Disburse travel grants to African scholars to attend the AARSE Conference every two years.• Selection based on submission of accepted, full paper to the conference.
People	M Inggs (chair), H. Annegarn, J. Kunfoniyi (AARSE president), two new members from AARSE LOC.
Budget	\$10k per annum, flexible, taken from IGARSS 2009 Surplus.
Progress	Conference is in Kampala, Uganda for 2016. About 10 grants applications submitted.



E4 Education Portal

Objective	<ul style="list-style-type: none">• Make GRSS Web page a renowned/premier source of educational material.
People	M Inggs, S. Reising, L. Pierce (web master).
Budget	No separate Education budget for 2016 onwards.
Progress	Working with Leland, who has made huge improvements (please visit the site, give suggestions).



E7 GRSS Summer School (GR4S)

Objective	<ul style="list-style-type: none">• Broad introduction to topics in the scope of GRSS.• Target new PhD and advanced Masters students.• Opportunity to introduce the Society and membership benefits.
People	M Inggs and L. Bruce.
Budget	Self funded through small fee and donation of venues by the IGARSS LOC.
Progress	<ul style="list-style-type: none">• Event in Beijing in place thanks to China LOC.• Planning for Uganda (AARSE) completed.



E6 Quarterly Education Column

Objective	<ul style="list-style-type: none">• Disseminate news of GRSS educational activities.• Spread news of education opportunities.
People	L. Hayden (chair), M. Inggs, guest authors.
Budget	No direct implications
Progress	Ways to widening the scope of articles is being reviewed.



E7 Survey IEEE Resources

Objective	<ul style="list-style-type: none">• In-depth discussion with IEEE staff / contractors.• Report for GRSS to assist future projects.
People	Colin Schwegman, GRSS SA Co-chair
Budget	\$2k
Progress	Have links through Jennifer to IEEE persons. Waiting on detailed plan from Colin.



E8 Survey Web Education Resources

Objective	<ul style="list-style-type: none">• In-depth review of current GRSS resources.• Report for GRSS for guiding Web development.
People	Volunteers yet to be found.
Budget	\$5k
Progress	Waiting on access to GRSS mailing list to find volunteers. Team of at least two.



E9 Register of all GRSS Educational activities

Objective	<ul style="list-style-type: none">• Provide coordination hub for AdCom members.• Prevent duplication
People	Adcom running events with educational bias.
Budget	none
Progress	Google Form or Web portal?



E10 Travel Funding Advertisement

Objective	<ul style="list-style-type: none">• Advertise upcoming travel support for IGARSS
People	MR Inggs and L Hayden
Budget	none
Progress	Probably a “callout” on the Education Column



E11 Advertorial of Web Materials

Objective	<ul style="list-style-type: none">• Advertise material on our Web Portal• Highlight new contributions
People	L Hayden, with volunteers
Budget	none
Progress	Annual dominant theme for Education Column



E12 Annual Review of Recent PhDs

Objective	<ul style="list-style-type: none">• Review recent PhD material listed on our Web Portal.• Draw new PhDs to our Society through the Web Portal
People	L Hayden, with volunteers
Budget	none
Progress	Annual article (or part of) for Education Column



E13 Annual Review of IGARSS Recordings

Objective	<ul style="list-style-type: none">• Lift out outstanding presentations of the immediately past IGARSS.• Attract researchers to our society
People	L Hayden, with volunteers
Budget	none
Progress	Annual article (or part of) for Education Column



E14 Technical Committee Tutorials

Objective	<ul style="list-style-type: none">• TCs to provide one tutorial for our WebPortal per Annum• Attract researchers, students to our society.
People	All current TCs.
Budget	none
Progress	To start by end of 2016



E15 CEOS WG CapD-4 Capacity Development activities

Objective	<ul style="list-style-type: none">• Review these activities• Possible liaison with our activities
People	MR Inggs or Volunteer
Budget	none
Progress	To start by end of 2016



E16 Education Track for IGARSS

Objective	<ul style="list-style-type: none">• Ensure an education track at all IGARSS.
People	CAC Chair to facilitate Manual changes Appointment of Theme Coordinator Volunteer (Lori Bruce?)
Budget	none
Progress	<ul style="list-style-type: none">• Theme convener to be identified• To be added to IGARSS Manual• Add to standard themes• To start by end of 2016



E17 Tutorial / Summer School “Paper writing Howto”

Objective	<ul style="list-style-type: none">• Make sure there are more authors of high quality papers for our conferences and Journals
People	Bill Emery is writing an article. GR4S and Conference Tutorial LOC Director Education to monitor
Budget	none
Progress	<ul style="list-style-type: none">• Start discussion with CAC• To be added to IGARSS Manual?• To start by end of 2016



E19 Theme Coordinator Overview for Magazine

Objective	<ul style="list-style-type: none">• Lift out the highlights of the past IGARSS Themes, identify trends• Annual article for Magazine• (this is beyond pure, “Education”)
People	Volunteer required
Budget	none
Progress	<ul style="list-style-type: none">• Discuss with CAC.• Progress by end 2016.



Agenda 4.2.3 IGARSS Travel Funding



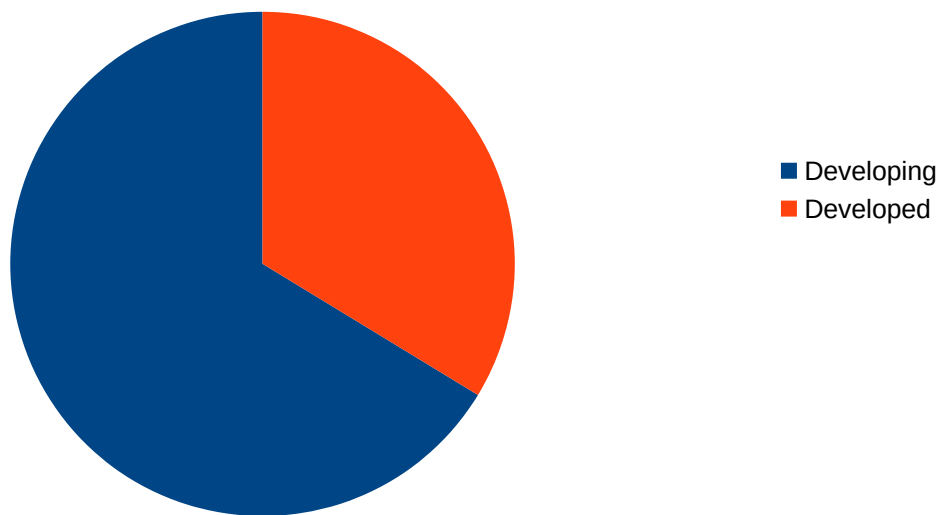
E1 Travel Grants

Objective	<ul style="list-style-type: none">• Disburse travel grants to IGARSS Delegates.• Widen access to developing nations (source of growth).
People	M Inggs (chair, Africa), JC Shi (SE Asia), P. Gamba (Latin America). Rosen (India), Hayden (USA, minorities)
Budget	\$60k for 2016. Special allocation of \$30k for India.
Progress	\$650 over budget, but more dropouts will occur.



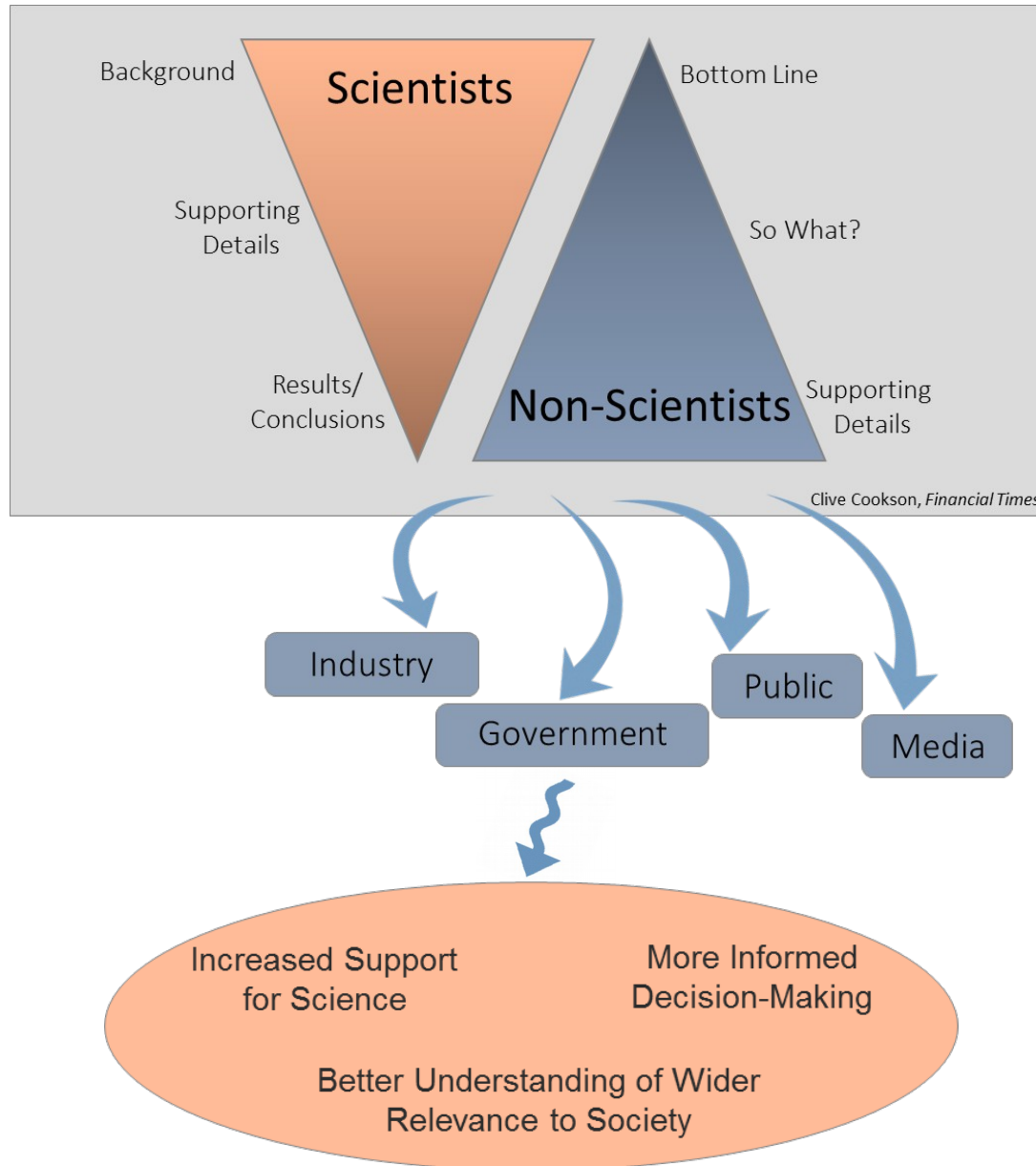
IGARSS Travel Grants

2016 Beijing



Budget: \$30k India + \$60k standard
India: \$32.5k Total: \$90.65k

Enhancing GRSS Members' Communication Skills



Enhancing GRSS Members' Communication Skills

Example Existing Resources

- AAAS Mass Media Fellows Program
- #GradSciComm: COMPASS
- Escape from the Ivory Tower
- English Communication for Scientists
- Communicating Science: Tools for Scientists and Engineers
- Building Buzz: Communicating Science in New Media Environments
- Practical Science Communication Strategies for Graduate Students
- Communication Breakdown
- iBiology Young Scientist Seminar Series
- Alan Alda Center for Communicating Science
- 3MT (Three Minute Thesis)

GRSS Options

On-line Materials

Use Existing Resources
Low-Cost
Wide Dissemination

Face-to-Face Seminars/Workshops

Use Existing Organizations
Higher-Cost
Varied Dissemination
Short Seminars
Intensive Workshops

Student Activities

Use Existing Concepts
Low-Cost
Varied Dissemination
Student Competitions

Enhancing GRSS Members' Communication Skills

Face-to-Face Seminars/Workshops

Use Existing Organizations
Higher-Cost
Varied Dissemination
Short Seminars
Intensive Workshops

Higher End Options



Interactive Plenary (2 hours)

“Distilling Your Message”

\$3000 plus speaker travel

Unlimited Participants (limited by space)

Intensive Workshop (3 days)

\$27,500 plus 6 instructors travel

32 Participants

\$1500/person

Student Activities

Use Existing Concepts
Low-Cost
Varied Dissemination
Elevator Pitch Competition
Three Minute Thesis Competition

More Affordable Options



YouTube



Online Competition

Possible IGARSS Component

\$3000 plus

Unlimited Participants

Results in Videos for GRSS Use