

Introduction to the World Geothermal Congress 2015 Technical Program

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ABSTRACT

This paper provides an overview of the Technical Program of the World Geothermal Congress 2015, and reports on the content and the development process involved in creating the program.

1. PAPERS

2015 will be the largest World Geothermal Congress ever held, with a 30% increase in the number of papers compared to 2010 (and a 250% increase over 1995) – Figure 1. This is a result of the expansion of the worldwide activity of geothermal energy (see Bertani, 2015, and Lund and Boyd, 2015), as well as the increase in popularity of the Congress itself. 1317 papers have been accepted for the Congress, from 89 countries (Table 1). Approximately 20% of the authors expressed a preference to present their paper as a poster.

Papers were submitted in 36 topics, distributed as shown in Table 2.

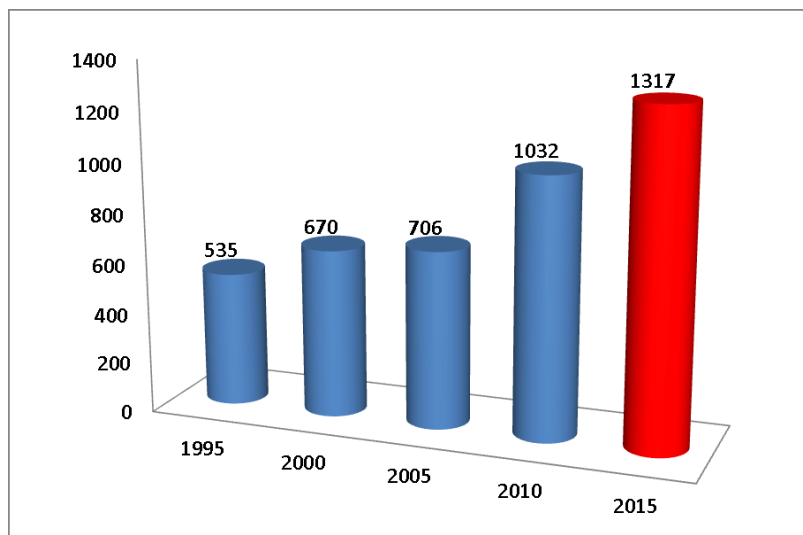


Figure 1: The growth of the World Geothermal Congress in terms of papers submitted (and accepted).

Table 1: Geographical distribution of paper submissions

89 total countries/regions on the list.

Country/Region	Total	Papers	Posters
Albania	1	0	1
Algeria	1	1	0
Argentina	2	1	1
Australia	45	45	0
Austria	3	2	1
Bangladesh	1	0	1
Belarus	2	1	1
Belgium	7	6	1
Bosnia and Herzegovina	1	1	0

Brazil	2	1	1
Bulgaria	4	1	3
Canada	16	12	4
Chile	8	8	0
China	87	45	42
Colombia	7	0	7
Comoros	1	1	0
Congo, Democratic Republic of the	1	1	0
Costa Rica	15	12	3
Croatia	2	2	0
Cyprus	1	1	0
Czech Republic	1	0	1
Denmark	1	0	1
Djibouti	10	10	0
Ecuador	1	1	0
Egypt	1	1	0
Eritrea	1	1	0
Ethiopia	4	2	2
France	37	33	4
Georgia	1	0	1
Germany	108	93	15
Greece	3	2	1
Guatemala	1	1	0
Honduras	1	1	0
Hungary	9	7	2
Iceland	73	72	1
India	15	10	5
Indonesia	138	112	26
Iran	28	18	10
Ireland	10	7	3
Israel	2	0	2
Italy	28	25	3
Japan	52	40	12
Jordan	1	0	1
Kenya	33	28	5
Korea, Republic of	10	5	5
Latvia	2	2	0
Lithuania	1	1	0
Macedonia	1	1	0
Madagascar	2	2	0
Malawi	2	2	0
Malaysia	3	3	0
Mexico	41	26	15
Mongolia	1	1	0
Morocco	3	2	1
Netherlands	19	18	1

New Zealand	104	101	3
Nicaragua	1	1	0
Norway	5	5	0
Pakistan	2	1	1
Papua New Guinea	5	3	2
Peru	3	1	2
Philippines	55	44	11
Poland	20	4	16
Portugal	5	3	2
Romania	6	3	3
Russia	36	20	16
Rwanda	3	3	0
Saudi Arabia	2	1	1
Serbia	1	0	1
Slovakia	4	3	1
Slovenia	4	4	0
South Africa	4	4	0
Spain	1	0	1
Sri Lanka	1	1	0
St. Kitts and Nevis	1	0	1
Sweden	4	3	1
Switzerland	23	21	2
Taiwan	4	2	2
Tanzania, United Rep of	3	2	1
Thailand	2	2	0
Tunisia	3	3	0
Turkey	51	47	4
Uganda	7	5	2
Ukraine	1	1	0
United Arab Emirates	1	1	0
United Kingdom	14	13	1
USA	83	79	4
Vietnam	3	1	2
Yemen	4	3	1
TOTALS	1317	1053	264

Table 2: Topics for the Congress, showing the numbers of papers and posters in each, as well as the number of reviewers who reviewed papers in each topic.

There are 36 topics defined for WGC2015.

Number	Topic	Oral	Poster	Papers	Reviewers
0	Keynote	1	0	1	1
1	Country Updates	54	23	77	3
2	Environmental and Societal Aspects	43	5	48	6
3	Legal and Regulatory Aspects	19	2	21	3
4	Economics and Financing	15	1	16	3
5	Sustainability	6	3	9	3
6	Case Histories	23	6	29	4

7	Energy Pricing and Policies	6	0	6	2
8	Business Strategies	14	4	18	2
9	Geothermal Education	16	2	18	2
11	Exploration	76	16	92	13
12	Geology	62	23	85	12
13	Geophysics	78	31	109	15
14	Geochemistry	74	25	99	11
15	Hydrogeology	27	7	34	6
16	Resource Assessment	59	21	80	10
17	Geomicrobiology	1	0	1	0
21	Drilling and Completion Technology	31	4	35	7
22	Reservoir Engineering	91	17	108	15
23	Injection Technology	15	2	17	2
24	Field Management	17	3	20	4
25	Production Engineering, Steam Gathering Systems	20	5	25	3
26	Power Generation	63	11	74	8
27	Corrosion and Scaling	35	7	42	5
28	Direct Use	34	6	40	3
29	Geothermal Heat Pumps	43	13	56	7
31	EGS - Enhanced Geothermal Systems	51	8	59	9
32	Hot Sedimentary Aquifers (HSA)	9	2	11	2
33	Software for Geothermal Applications	20	7	27	5
34	Health, Tourism and Balneology	4	3	7	1
35	District Heating and Agriculture	15	2	17	2
36	Clean Development Mechanism	3	0	3	1
37	Advanced Technology (Magma, Geopressure, etc.)	11	0	11	3
38	Integrated Energy Systems, Cascaded Uses	11	1	12	2
39	Minerals Extraction and Processing	4	4	8	1
40	Other	2	0	2	1
TOTALS		1053	264	1317	206

2. TECHNICAL PEER-REVIEW

All of the abstracts, and the papers, were subject to peer review by a topic expert, and many papers received more than one review. The reviewers accepted or rejected the abstracts, reviewed the papers and suggested revisions, and ultimately accepted or rejected the final paper (Figure 2, and Table 3). One reviewer in each topic was responsible for arranging the papers into thematically consistent sessions in the Congress. A total of 175 reviewers worked on the program (Table 4). The 1317 papers were arranged into either oral or poster sessions, initially based on author preference (Figure 3). The oral presentations were arranged into 191 sessions (Table 6), which provided insufficient time slots for all who wished to make oral presentations. Accordingly, a small number of papers were made posters instead of oral presentations. Additionally, most sessions had a “reserve” paper, which is given as a poster, but can be added into the oral presentation schedule if a scheduled author does not attend the session. In practice, most of the reserve papers are likely to be presented orally, as it is typical that some scheduled authors may not be able to attend.

3. EDITING AND REFORMATTING

26 editors worked on the papers (Table 5). After being reviewed, papers were flagged as needing improvement in English, and/or refinement of the formatting to bring the paper into greater compliance with the Congress template. The editors were mostly graduate students or professors in Australia, New Zealand, and the US. The participating universities were University of Queensland, University of Auckland, Stanford University, Oregon Institute of Technology and Cornell University.

About 40% all the submitted papers were edited for English, and a slightly greater number were reformatted (Table 3).

Pictures of the editorial teams are included in the Appendix.

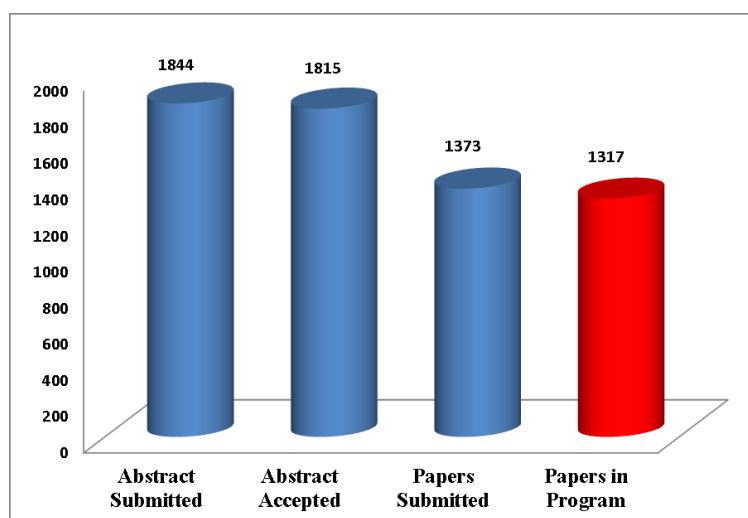


Figure 2: Progression of submissions – from abstracts to completed papers in the program.

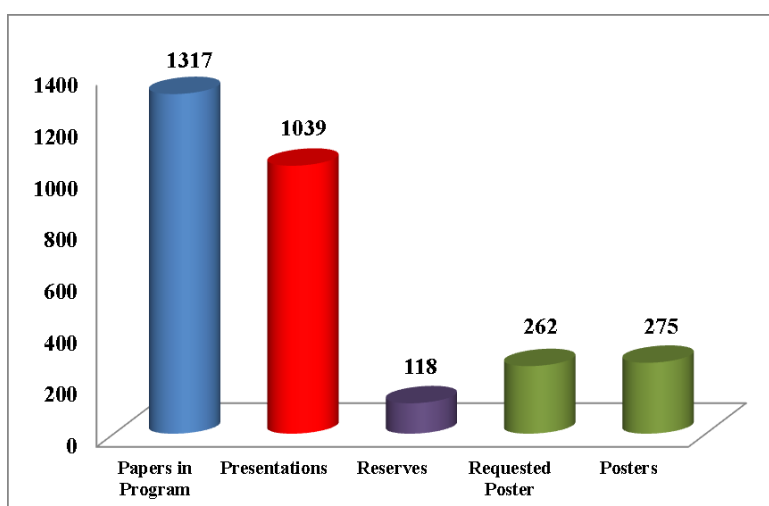


Figure 3: Arrangement of the papers into the technical program.

Table 3: Progression of the papers through the review, editing and allocation processes.

Abstract Submitted	1844
Abstracts Rejected	29
Abstract Accepted	1815
Papers Submitted	1373
Papers Rejected	12
Papers Withdrawn	22
Revisions Requested	667
Revisions Received	656
Edited for Format	579
Edited for English	508
Papers in Program	1317
Presentations	1039
Reserves	118
Requested Poster	262
Posters	275

Table 4: Topic reviewers for the papers. 175 reviewers in total.

Reviewer	Company	Topic [papers]
Ruggero Bertani	UGI-EGEC-Enel Green Power, [Italy]	1. Country Updates [86]
Tonya Toni Boyd	formerly Geo-Heat Center, [USA]	1. Country Updates [86]
John Lund	Emeritus Director Geo-Heat Center, [USA]	1. Country Updates [86]
Chris Bromley	GNS Science, [New Zealand]	2. Environmental and Societal Aspects [74]
Simone Carr-Cornish	CSIRO, [Australia]	2. Environmental and Societal Aspects [74]
Fahmi Dereinda	Rochester Institute of Technology, [USA]	2. Environmental and Societal Aspects [74]
Katherine Luketina	Waikato Regional Council, [New Zealand]	2. Environmental and Societal Aspects [74]
Regina Victoria Pascual	Energy Development Corporation, [Philippines]	2. Environmental and Societal Aspects [74]
Lygia Romanach	CSIRO, [Australia]	2. Environmental and Societal Aspects [74]
Betina Bendall	Department for Manufacturing Innovation Trade Rsou, [Australia]	3. Legal and Regulatory Aspects [28]
Jonas Ketilsson	Orkustofnun, [Iceland]	3. Legal and Regulatory Aspects [28]
Antonius Wahjosoedibjo	PT Pranata Energi Nusantara (PENConsulti, [Indonesia]	3. Legal and Regulatory Aspects [28]
Christian Boissavy	French Geothermal Association for Professionals (A, [France]	4. Economics and Financing [25]
Varun Chandrasekhar	GeoSyndicate Power Ltd, [India]	4. Economics and Financing [25]
Jenny Hayward	CSIRO Energy Technology, [Australia]	4. Economics and Financing [25]
Gudni Axelsson	Iceland GeoSurvey, [Iceland]	5. Sustainability [14]
Ladislaus Rybach	ETH Zurich, [Switzerland]	5. Sustainability [14]
Benedikt Steingrímsson	Iceland GeoSurvey (ISOR), [Iceland]	5. Sustainability [14]
Paul Brophy	EGS Inc., [USA]	6. Case Histories [50]
Anthony Budd	Geoscience Australia, [Australia]	6. Case Histories [50]
Alfonso Garcia-Gutierrez	Instituto de Investigaciones Eléctricas, [Mexico]	6. Case Histories [50]
Colin Harvey	Harvey Consultants Ltd, [New Zealand]	6. Case Histories [50]
Ali Ashat	Lab. Geothermal ITB, [Indonesia]	7. Energy Pricing and Policies [9]
Horst Kreuter	GeoT, [Germany]	7. Energy Pricing and Policies [9]
Madjedi Hasan	PT Pranata Energi Nusantara, [Indonesia]	8. Business Strategies [31]
Delian Mills	Verdicorp, [Australia]	8. Business Strategies [31]
Rolf Bracke	GZB - International Geothermal Centre, Bochum, Ger, [Germany]	9. Geothermal Education [25]
Nenny Saptadji	Institut Teknologi Bandung, [Indonesia]	9. Geothermal Education [25]
Lauro Bayrante	Energy Development Corporation (EDC), [Philippines]	11. Exploration [133]
David Bruhn	GFZ Potsdam, [Germany]	11. Exploration [133]
Varun Chandrasekhar	GeoSyndicate Power Ltd, [India]	11. Exploration [133]
Mandy Duda	International Geothermal Center Bochum, [Germany]	11. Exploration [133]
Kemal Erbas	Helmholtz Centre Potsdam GFZ German Research Centr, [Germany]	11. Exploration [133]
Guðmundur Friðleifsson	HS Orka hf, [Iceland]	11. Exploration [133]
Inga Moeck	University of Alberta, [Canada]	11. Exploration [133]
Asnawir Nasution	Faculty of Earth Science and Technology, ITB, [Indonesia]	11. Exploration [133]
Manuel Ogena	Energy Development Corporation, [Philippines]	11. Exploration [133]
Klaus Regenauer-Lieb	UNSW Australia, [Australia]	11. Exploration [133]
Suryantini Suryantini	Institute Teknologi Bandung (ITB), [Indonesia]	11. Exploration [133]
Irene Wallis	Mighty River Power, [New Zealand]	11. Exploration [133]
Maxwell Wilmarth	Mighty River Power, [New Zealand]	11. Exploration [133]

Greg Bignall	GNS Science, [New Zealand]	12. Geology [114]
David Bruhn	GFZ Potsdam, [Germany]	12. Geology [114]
Anthony Budd	Geoscience Australia, [Australia]	12. Geology [114]
Philippe Calcagno	BRGM, [France]	12. Geology [114]
Ed Gerner	Geoscience Australia, [Australia]	12. Geology [114]
Luis Carlos Gutierrez-Negrin	Asociación Geotermica Mexicana, Geoconsul, [Mexico]	12. Geology [114]
Heinz Holl	Geodynamics Limited, [Australia]	12. Geology [114]
Cameron Huddleston-Holmes	CSIRO, [Australia]	12. Geology [114]
Chris Matthews	University of Adelaide, [Australia]	12. Geology [114]
Sylvia Ramos	Energy Development Corporation, [Philippines]	12. Geology [114]
James Stimac	Geoglobal Energy, [USA]	12. Geology [114]
Pri Utami	Geothermal Research Centre, Faculty of Engineering, [Indonesia]	12. Geology [114]
William Cumming	Cumming Geoscience, [USA]	13. Geophysics [158]
Yunus Daud	Geothermal Laboratory, The University of Indonesia, [Indonesia]	13. Geophysics [158]
Patrick Dobson	Lawrence Berkeley National Laboratory, [USA]	13. Geophysics [158]
Desmond FitzGerald	Intrepid Geophysics, [Australia]	13. Geophysics [158]
Ludvik Georgsson	UNU Geothermal Training Programme, [Iceland]	13. Geophysics [158]
Frank Horowitz	Dept. Earth & Atmos. Sci., Cornell University, [USA]	13. Geophysics [158]
Tsuneo Ishido	Geological Survey of Japan, AIST, [Japan]	13. Geophysics [158]
Peter Leary	Institute of Earth Science and Engineering, Univ A, [New Zealand]	13. Geophysics [158]
Harald Milsch	GFZ German Research Centre for Geosciences, [Germany]	13. Geophysics [158]
Gregg Nordquist	Chevron Geothermal Services Company Philippines, [USA]	13. Geophysics [158]
Horst Rueter	HatbourDom, [Germany]	13. Geophysics [158]
Steven Sewell	Mighty River Power, [New Zealand]	13. Geophysics [158]
Mitchel Stark	Chevron Geothermal Service Company, [Philippines]	13. Geophysics [158]
Toshihiro Uchida	Geological Survey of Japan, AIST, [Japan]	13. Geophysics [158]
Kasumi Yasukawa	National Institute of Advanced Industrial Science, [Japan]	13. Geophysics [158]
Francis Edward Bayon	, [Singapore]	14. Geochemistry [139]
Adriano Cabel	Energy Development Corporation, [Philippines]	14. Geochemistry [139]
Vilma Capuno	Chevron Geothermal Services Company, [Philippines]	14. Geochemistry [139]
Rina Herdianita	Institute of Technology, Bandung (ITB), [Indonesia]	14. Geochemistry [139]
Thomas Powell	Powell Geoscience Ltd., [New Zealand]	14. Geochemistry [139]
Simona Regenspurg	German Research Centre for Geosciences, [Germany]	14. Geochemistry [139]
Peter Rose	EGI/University of Utah, [USA]	14. Geochemistry [139]
Noel Salonga	Energy Development Corporation, [Philippines]	14. Geochemistry [139]
Eugene Sunio	Chevron Geothermal Services Company, [Philippines]	14. Geochemistry [139]
Larry Villasenor	Philippine Geothermal Production Co., Inc., [Philippines]	14. Geochemistry [139]
Nilgun Gulec	Middle East Technical University, [Turkey]	14. Geochemistry [139]
Guido Blöcher	GFZ, [Germany]	15. Hydrogeology [49]
Etienne Buscarlet	Mighty River Power, [New Zealand]	15. Hydrogeology [49]
Jan Dowgiallo	Inst. Geol. Sciences, Polish Academy of Sciences, [Poland]	15. Hydrogeology [49]
Agung Harijoko	Universitas Gadjah Mada, [Indonesia]	15. Hydrogeology [49]
Juliet Newson	Contact Energy Ltd, [New Zealand]	15. Hydrogeology [49]

Günter Zimmermann	GFZ Potsdam, [Germany]	15. Hydrogeology [49]
Graeme Beardsmore	NICTA Ltd, [Australia]	16. Resource Assessment [97]
Edward Bermido	Philippine Geothermal Production Company, [Philippines]	16. Resource Assessment [97]
Egill Juliusson	Landsvirkjun, [Iceland]	16. Resource Assessment [97]
Hideshi Kaieda	Central Research Institute of Electric Power Indus, [Japan]	16. Resource Assessment [97]
Zhonghe Pang	IGGCAS, [China]	16. Resource Assessment [97]
Fabian Sepulveda	Contact Energy, [New Zealand]	16. Resource Assessment [97]
Christine Siega	Contact Energy, [New Zealand]	16. Resource Assessment [97]
Anna Sowizdzal	AGH University of Science and Technology, [Poland]	16. Resource Assessment [97]
Francis Xavier Sta Ana	Energy Development Corporation, [Philippines]	16. Resource Assessment [97]
Joy Cristine Tolentino	Philippine Geothermal Production Company, Inc., [Philippines]	16. Resource Assessment [97]
Stephen Bauer	Sandia National Laboratories, [USA]	21. Drilling and Completion Technology [58]
Amy Hodson-Clarke	Geodynamics Limited, [Australia]	21. Drilling and Completion Technology [58]
David Stephen Pye	Consultant, [USA]	21. Drilling and Completion Technology [58]
Bjarni Pálsson	Landsvirkjun, [Iceland]	21. Drilling and Completion Technology [58]
Ingo Sass	Technische Universität Darmstadt, [Germany]	21. Drilling and Completion Technology [58]
Umrhan Serpen	NTU Geothermal, [Turkey]	21. Drilling and Completion Technology [58]
Ralph Winnill	Contact Energy Ltd, [New Zealand]	21. Drilling and Completion Technology [58]
Jonathon Clearwater	Mighty River Power Limited, [New Zealand]	22. Reservoir Engineering [173]
Maria Gudjonsdottir	Reykjavik University / University of Iceland, [Iceland]	22. Reservoir Engineering [173]
Robert Hogarth	Geodynamics Limited, [Australia]	22. Reservoir Engineering [173]
Roland Horne	Stanford University, [USA]	22. Reservoir Engineering [173]
Kewen Li	Stanford University, [USA]	22. Reservoir Engineering [173]
Ramonchito Cedric Malate	Jacobs New Zealand, [New Zealand]	22. Reservoir Engineering [173]
Anthony Menzies	Chevron Geothermal Services Company, [Philippines]	22. Reservoir Engineering [173]
Juliet Newson	Contact Energy Ltd, [New Zealand]	22. Reservoir Engineering [173]
John O'Sullivan	University of Auckland, [New Zealand]	22. Reservoir Engineering [173]
Mustafa Onur	Istanbul Technical University, [Turkey]	22. Reservoir Engineering [173]
Ludovic Ricard	CSIRO, [Australia]	22. Reservoir Engineering [173]
Esther Rosenbrand	Technical University of Denmark, Dept Civil Engine, [Denmark]	22. Reservoir Engineering [173]
Abdurrahman Satman	Istanbul Technical University, [Turkey]	22. Reservoir Engineering [173]
Hiroyuki Tokita	West Japan Engineering Consultants. Inc., [Japan]	22. Reservoir Engineering [173]
Omer Inanc Tureyen	Istanbul Technical University, [Turkey]	22. Reservoir Engineering [173]
Benedikt Steingrímsson	Iceland GeoSurvey (ISOR), [Iceland]	23. Injection Technology [21]
Mario-Cesar Suarez-Arriaga	Faculty of Sciences UMSNH, [Mexico]	23. Injection Technology [21]
Peter Barnett	Hot Rock Limited, [New Zealand]	24. Field Management [31]
Mineyuki Hanano	Japan Metals and Chemicals Co., Ltd., [Japan]	24. Field Management [31]
Paul Moya	West Japan Engineering Consultants, Inc., [Costa Rica]	24. Field Management [31]
Fusun Tut Haklıdır	Istanbul Bilgi University Department of Energy Sys, [Turkey]	24. Field Management [31]
Mike Barnes	Mighty River Power, [New Zealand]	25. Production Engineering, Steam Gathering Systems [36]
Khasani Jaelani	Gadjah Mada University, [Indonesia]	25. Production Engineering and Steam Gathering Systems [36]
James Lovekin	GeothermEx, [USA]	25. Production Engineering and Steam

Gathering Systems [36]

Ronald DiPippo	Renewable Energy Consultant, [USA]	26. Power Generation [96]
Hal Gurgenci	The University of Queensland, [Australia]	26. Power Generation [96]
Marcus Haynes	Geoscience Australia, [Australia]	26. Power Generation [96]
Keith Lichti	Quest Integrity (NZL) Ltd, [New Zealand]	26. Power Generation [96]
Tom McAuliffe	Power Engineers, [USA]	26. Power Generation [96]
Ian Richardson	Mighty River Power, [New Zealand]	26. Power Generation [96]
Shigeto Yamada	Fuji Electric Co., Ltd., [Japan]	26. Power Generation [96]
mawardi agani	PT Pertamina Geothermal Energy, [USA]	26. Power Generation [96]
Gestur Gislason	Reykjavik Geothermal, [Iceland]	27. Corrosion and Scaling [50]
Roland Horne	Stanford University, [USA]	27. Corrosion and Scaling [50]
Keith Lichti	Quest Integrity (NZL) Ltd, [New Zealand]	27. Corrosion and Scaling [50]
Oleh Weres	PowerChem a division of ChemTreat, [USA]	27. Corrosion and Scaling [50]
Norio Yanagisawa	AIST, [Japan]	27. Corrosion and Scaling [50]
Tonya Toni Boyd	formerly Geo-Heat Center, [USA]	28. Direct Use [49]
Dornadula Chandrasekharam	Indian Institute of Technology, [India]	28. Direct Use [49]
Taufan Surana	BPPT, [Indonesia]	28. Direct Use [49]
Marita Berndt	Aurecon, [Australia]	29. Geothermal Heat Pumps [83]
Gregor Bussmann	International geothermal Centre, [Germany]	29. Geothermal Heat Pumps [83]
Hikari Fujii	Akita University, [Japan]	29. Geothermal Heat Pumps [83]
Thomas Kohl	KIT-Campus Süd, [Germany]	29. Geothermal Heat Pumps [83]
Morgane Le Brun	Mighty River Power, [New Zealand]	29. Geothermal Heat Pumps [83]
Yuichi Niibori	Tohoku University, [Japan]	29. Geothermal Heat Pumps [83]
Tomoyuki Ohtani	Dept. Civil Engineering, Gifu University, [Japan]	29. Geothermal Heat Pumps [83]
Hiroshi Asanuma	AIST, [Japan]	31. EGS - Enhanced Geothermal Systems [80]
Robert Hogarth	Geodynamics Limited, [Australia]	31. EGS - Enhanced Geothermal Systems [80]
Heinz Holl	Geodynamics Limited, [Australia]	31. EGS - Enhanced Geothermal Systems [80]
Cameron Huddleston-Holmes	CSIRO, [Australia]	31. EGS - Enhanced Geothermal Systems [80]
William Osborn	Geothermal Resource Group, [USA]	31. EGS - Enhanced Geothermal Systems [80]
Björn Paulsson	Paulsson, Inc., [USA]	31. EGS - Enhanced Geothermal Systems [80]
Robert Podgorney	Idaho National Laboratory, [USA]	31. EGS - Enhanced Geothermal Systems [80]
Thomas Poulet	CSIRO, [Australia]	31. EGS - Enhanced Geothermal Systems [80]
Cameron Huddleston-Holmes	CSIRO, [Australia]	32. Hot Sedimentary Aquifers (HSA) [14]
Ludovic Ricard	CSIRO, [Australia]	32. Hot Sedimentary Aquifers (HSA) [14]
Errol Anderson	GSDS Ltd, [New Zealand]	33. Software for Geothermal Applications [38]
Ryuichi Itoi	Kyushu University, [Japan]	33. Software for Geothermal Applications [38]
Michael O'Sullivan	University of Auckland, [New Zealand]	33. Software for Geothermal Applications [38]
Robert Podgorney	Idaho National Laboratory, [USA]	33. Software for Geothermal Applications [38]
Topo Sutopo	Institut Teknologi Bandung (ITB), [Indonesia]	33. Software for Geothermal Applications [38]
Susan Hodgson	Consultant, [USA]	34. Health, Tourism and Balneology [10]
Alison Thompson	Canadian Geothermal Energy Association, CanGEA, [Canada]	35. District Heating and Agriculture [22]
Omer Inanc Tureyen	Istanbul Technical University, [Turkey]	35. District Heating and Agriculture

		[22]
Paul Quinlivan	Sinclair Knight Merz, [New Zealand]	36. Clean Development Mechanism [4]
Chad Augustine	National Renewable Energy Laboratory, [USA]	37. Advanced Technology (Magma, Geopressure, etc.) [16]
Yasuhiro Fujimitsu	Department of Earth Resources Engineering, Faculty, [Japan]	37. Advanced Technology (Magma, Geopressure, etc.) [16]
John Garnish	[United Kingdom]	37. Advanced Technology (Magma, Geopressure, etc.) [16]
Sanja Popovska-Vasilevska	University ST.Kliment Ohridski, Faculty of Technic, [Macedonia]	38. Integrated Energy Systems, Cascaded Uses [16]
Sayogi Sudarman	Sabang Geothermal, [Indonesia]	38. Integrated Energy Systems, Cascaded Uses [16]
Piyush Bakane	ORMAT, [USA]	39. Minerals Extraction and Processing [9]
Kewen Li	Stanford University, [USA]	40. Other [4]

Table 5: Editors for English correction and reformatting.

Editor	Institution	Edited
Morgan Ames	Stanford University, [USA]	25
Iman Ashtiani Abdi	The University of Queensland, [Australia]	12
Koenraad Beckers	Cornell University, [USA]	25
Tonya Toni Boyd	Geo-Heat Center, [USA]	179
Carla Kathryn Co	Stanford University, [USA]	25
Halldora Gudmundsdottir	Stanford University, [USA]	26
Suoying He	The University of Queensland, [Australia]	54
Roland Horne	Stanford University, [USA]	104
Renfeng Jiang	Stanford University, [USA]	25
Kewen Li	Stanford University, [USA]	25
Ying Li	University of Auckland, [New Zealand]	11
Yuanshen Lu	University of Queensland, [Australia]	17
Maciej Lukawski	Cornell University, [USA]	25
John Lund	Emeritus Director Geo-Heat Center, [USA]	102
Spencer Manley	Stanford Geothermal Program, [USA]	25
James Nogara	Energy Development Corp (EDC), [Philippines]	15
Jack Norbeck	Stanford University, [USA]	25
Mostafa Odabae	The University of Queensland, [Australia]	37
Angela Prieto	University of Auckland, [New Zealand]	25
Matthew Proctor	University of Auckland, [New Zealand]	16
Jiana Serpa	Stanford University, [USA]	10
Anna Suzuki	Tohoku University, [Japan]	25
Ezgi Unal	The University of Queensland, [Australia]	34
Ariel Vidal	University of Auckland, [New Zealand]	25
Yang Wong	Stanford University, [USA]	25
Yuran Zhang	Stanford University, [USA]	25
TOTALS		942

Table 6: Arrangement of sessions over the five days of the Congress. There are 191 sessions.

	Monday 20th April	Tuesday 21st April	Wednesday 22nd April	Thursday 23rd April	Friday 24th April
08:30 am - 10:10 am	1A : Opening Ceremony	Technical Sessions 5 5A : Geophysics 3 5B : Reservoir Engineering 3 5C : Enhanced Geothermal Systems 3 5D : Country Updates 3 5E : Environmental and Societal Aspects 3 5F : Power Generation 3 5G : Geochemistry 2 5H : Exploration 3 5I : Geothermal Heat Pumps 3 5J : Geology 3 5K : Legal and Regulatory Aspects 3 5L : District Heating and Agriculture 1	Technical Sessions 9 9A : Panel 1 9B : Geophysics 6 9C : Reservoir Engineering 7 9D : Environmental and Societal Aspects 6 9E : Power Generation 7 9F : International Collaboration 9G : Resource Assessment 1 9H : Injection Technology 2	Technical Sessions 13 13A : Geophysics 10 13B : Reservoir Engineering 11 13C : Enhanced Geothermal Systems 9 13D : Country Updates 4 13E : Power Generation 11 13F : Geochemistry 6 13G : Exploration 7 13H : Corrosion and Scaling 2 13I : Geology 6 13J : Case Histories 3 13K : Business Strategies 2 13L : District Heating and Agriculture 2	Technical Sessions 17 17A : Panel 2 17B : Reservoir Engineering 14 17C : Geochemistry 10 17D : Resource Assessment 8 17E : Software for Geothermal Applications 1 17F : Exploration 11 17G : Geothermal Education 1 17H : Injection Technology 3 17I : Minerals Extraction and Processing
10:40 am - 12:20 pm	2A : Keynote 1	Technical Sessions 6 6A : Geophysics 4 6B : Reservoir Engineering 4 6C : Enhanced Geothermal Systems 4 6D : Environmental and Societal Aspects 4 6E : Power Generation 4 6F : Geochemistry 3 6G : Geology 4 6H : Exploration 4 6I : Geothermal Heat Pumps 4 6J : Drilling and Completion 2 6K : Legal and Regulatory Aspects 4 6L : Direct Use 3	Technical Sessions 10 10A : Geophysics 7 10B : Reservoir Engineering 8 10C : Enhanced Geothermal Systems 6 10D : Environmental and Societal Aspects 7 10E : Power Generation 8 10F : Geochemistry 4 10G : IDDP 1 10H : Resource Assessment 2 10I : Geothermal Heat Pumps 7 10J : Drilling and Completion 5 10K : Economics and Financing 3 10L : Direct Use 5	Technical Sessions 14 14A : Geophysics 11 14B : Reservoir Engineering 12 14C : Geochemistry 7 14D : Country Updates 5 14E : Resource Assessment 5 14F : Exploration 8 14G : Corrosion and Scaling 3 14H : Geology 7 14I : Case Histories 4 14J : Hydrogeology 1 14K : Hot Sedimentary Aquifers (HSA) 1 14L : Field Management 2	Technical Sessions 18 18A : Geophysics 14 18B : Reservoir Engineering 15 18C : Geochemistry 11 18D : Country Updates 7 18E : Resource Assessment 9 18F : Exploration 12 18G : Corrosion and Scaling 5 18H : Geology 10 18I : Software for Geothermal Applications 2 18J : Hydrogeology 4 18K : Geothermal Education 2 18L : Integrated Energy Systems 1
01:20 pm - 03:00 pm	Technical Sessions 3 3A : Geophysics 1 3B : Reservoir Engineering 1 3C : Enhanced Geothermal Systems 1 3D : Country Updates 1 3E : Environmental and Societal Aspects 1 3F : Power Generation 1 3G : Exploration 1 3H : Geothermal Heat Pumps 1 3I : Geology 1 3J : Drilling and Completion 1 3K : Legal and Regulatory Aspects 1 3L : Direct Use 1	Technical Sessions 7 7A : Geophysics 5 7B : Reservoir Engineering 5 7C : Enhanced Geothermal Systems 5 7D : Environmental and Societal Aspects 5 7E : Power Generation 5 7F : Geothermal Heat Pumps 5 7G : Exploration 5 7H : Geology 5 7I : Drilling and Completion 3 7J : Sustainability 1 7K : Economics and Financing 1 7L : Direct Use 4	Technical Sessions 11 11A : Geophysics 8 11B : Reservoir Engineering 9 11C : Enhanced Geothermal Systems 7 11D : Environmental and Societal Aspects 8 11E : Power Generation 9 11F : Geochemistry 5 11G : IDDP 2 11H : Resource Assessment 3 11I : Case Histories 1 11J : Health, Tourism and Balneology 1 11K : Energy Pricing and Policies 11L : Field Management 1	Technical Sessions 15 15A : Geophysics 12 15B : Reservoir Engineering 13 15C : Geochemistry 8 15D : Country Updates 6 15E : Resource Assessment 6 15F : Exploration 9 15G : Corrosion and Scaling 4 15H : Geology 8 15I : Production Engineering 3 15J : Hydrogeology 2 15K : Hot Sedimentary Aquifers (HSA) 2 15L : Field Management 3	Technical Sessions 19 19A : Reservoir Engineering 16 19B : Geochemistry 12 19C : Resource Assessment 10 19D : Country Updates 8 19E : Exploration 13 19F : Corrosion and Scaling 6 19G : Geology 11 19H : Innovation 19I : Software for Geothermal Applications 3 19J : Hydrogeology 5 19K : Geothermal Education 3 19L : Integrated Energy Systems 2

03:30 pm - 05:10 pm	Technical Sessions 4	Technical Sessions 8	Technical Sessions 12	Technical Sessions 16	20A : Closing Ceremony
	4A : Geophysics 2 4B : Reservoir Engineering 2 4C : Enhanced Geothermal Systems 2 4D : Country Updates 2 4E : Environmental and Societal Aspects 2 4F : Power Generation 2 4G : Geochemistry 1 4H : Exploration 2 4I : Geothermal Heat Pumps 2 4J : Geology 2 4K : Legal and Regulatory Aspects 2 4L : Direct Use 2	8P : Poster 1 8B : Reservoir Engineering 6 8C : Power Generation 6 8D : Geothermal Heat Pumps 6 8E : Production Engineering 1 8F : Drilling and Completion 4 8G : Economics and Financing 2 8H : Injection Technology 1	12A : Geophysics 9 12B : Reservoir Engineering 10 12C : Enhanced Geothermal Systems 8 12D : Power Generation 10 12E : Resource Assessment 4 12F : Exploration 6 12G : IDDP 3 12H : Corrosion and Scaling 1 12I : Production Engineering 2 12J : Case Histories 2 12K : Business Strategies 1 12L : Heat from Oil Fields	16P : Poster 2 16B : Geophysics 13 16C : Geochemistry 9 16D : Resource Assessment 7 16E : Geology 9 16F : Exploration 10 16G : Hydrogeology 3	

ACKNOWLEDGEMENT

Constructing the Technical Program for the World Geothermal Congress 2015 has involved literally hundreds of people from all around the world, who generously donated their time and expertise to make the program technically rigorous, and consistent with international standards. Equally important are the more than 1000 authors who submitted papers to the Congress, made revisions, and will attend to present their results.

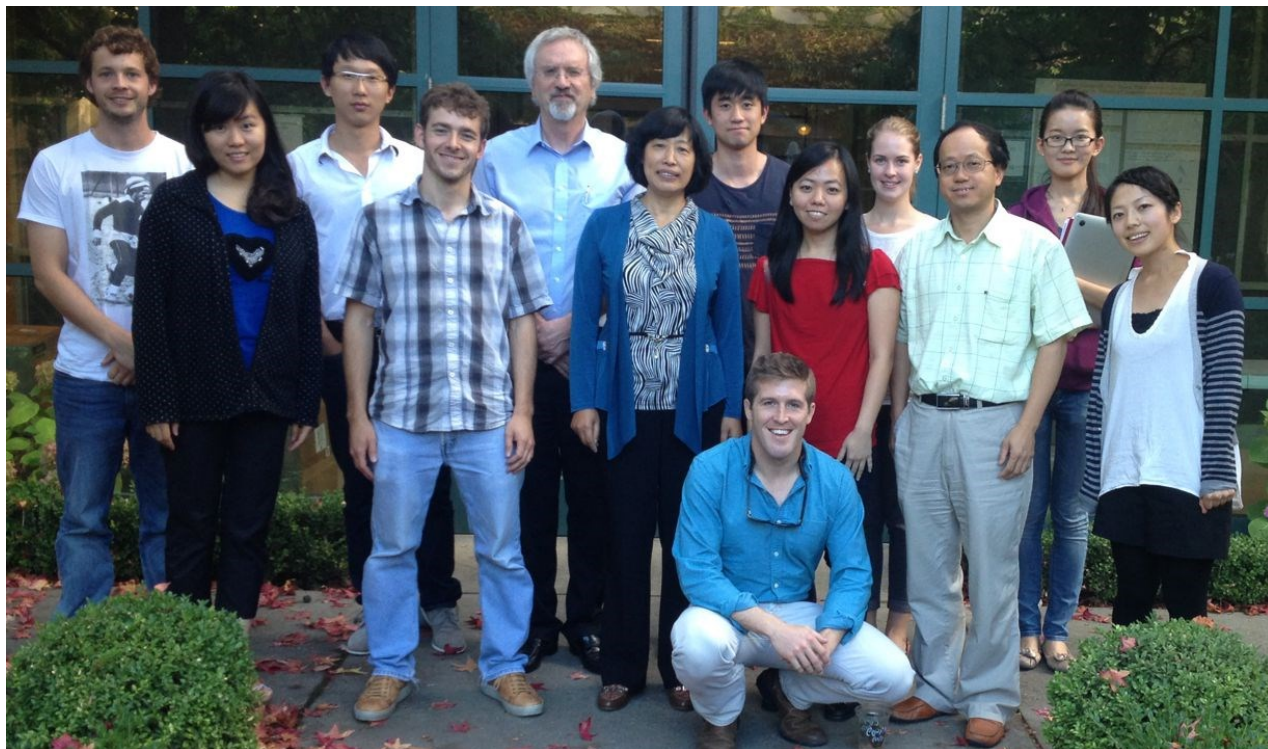
A very special thank-you is due to John Lund and Toni Boyd of Oregon Institute of Technology, who undertook the large and difficult task of managing the Country Update papers. Ruggero Bertani of ENEL joined this venture to write the world update paper for electrical power generation. Toni Boyd also served as deputy manager of the Technical Program, and checked more than 5000 pages of papers, including reformatting some hundreds of them.

Working with all of you has been a very positive experience. Thank you for your participation. Let's enjoy the program we've made!

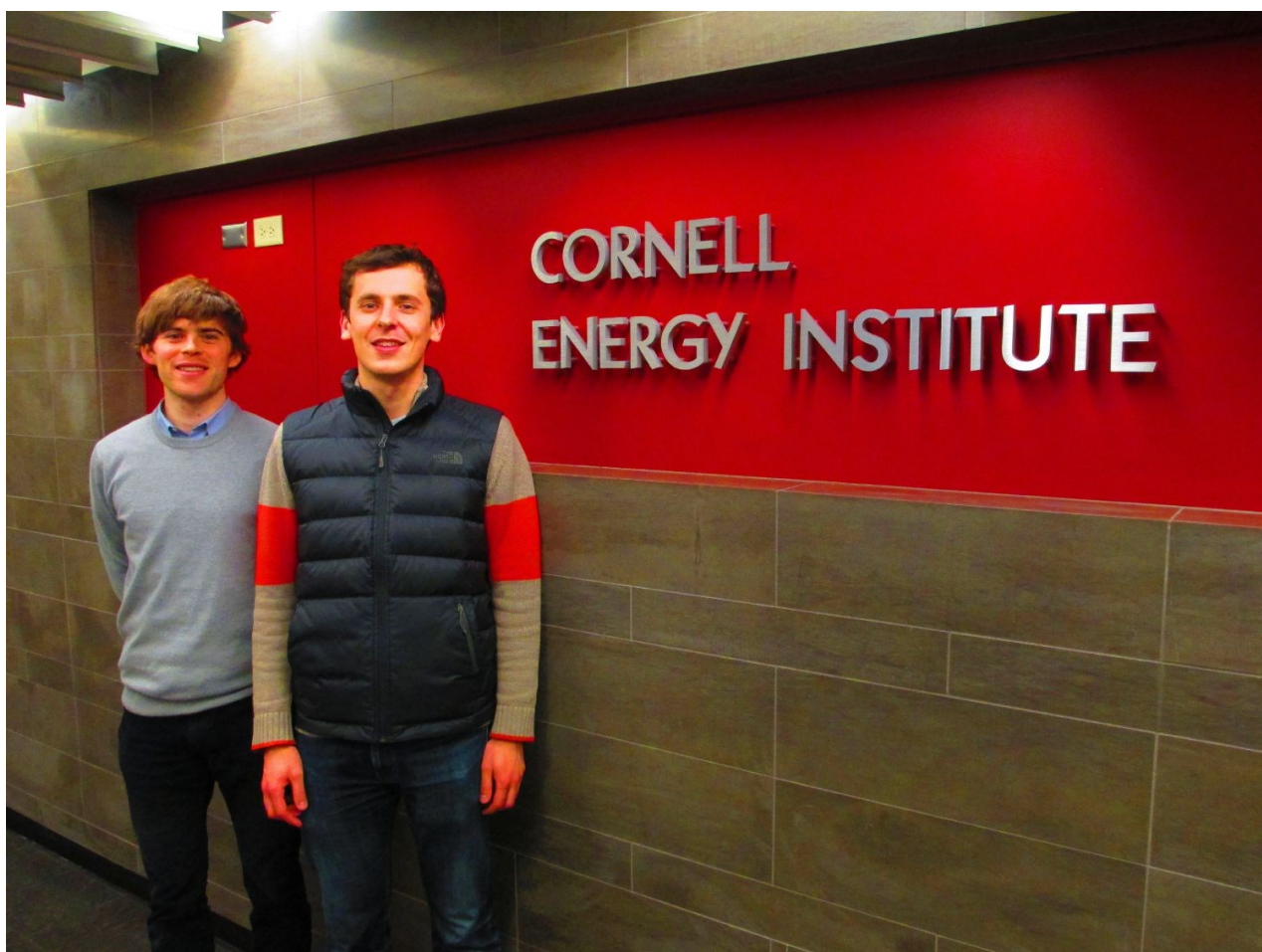
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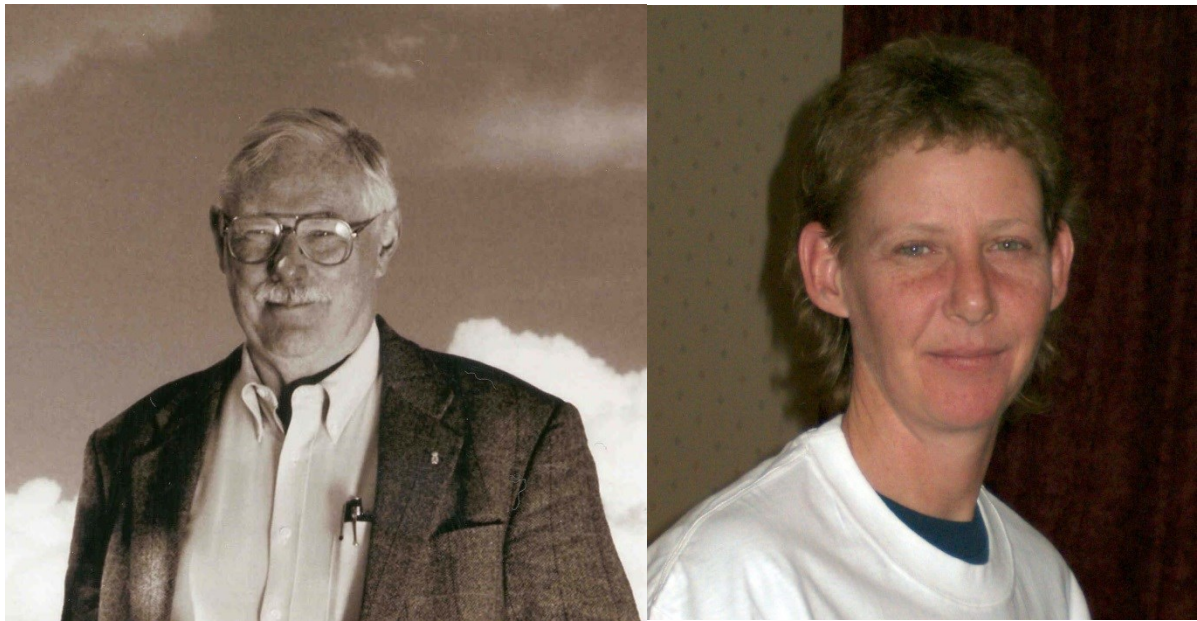
APPENDIX – EDITORS



Stanford University



Cornell University



Oregon Institute of Technology



University of Auckland



University of Queensland