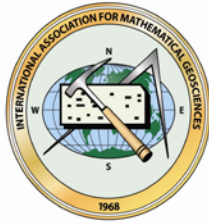




IAMG Student Chapter Annual Report

Year:	2016-2017
Chapter:	IAMG Student Chapter Nancy
Web-site (url): hosted by last update	www.gocad.org/studentchapter
Academic Advisor(s): 1 2	Guillaume Caumon
President (name, email):	Margaux Ragueneil margaux.ragueneil@univ-lorraine.fr
Secretary: (name, email)	Modeste Irakarama modeste.irakarama@univ-lorraine.fr
Treasurer (name, email):	Nicolas Clausolles nicolas.clausolles@univ-lorraine.fr



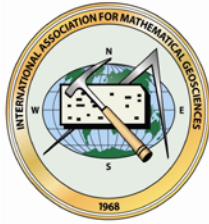
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Members	Name	Last Degree	Research Project	Department
	Margaux Ragueneil	MSc	PhD: Flow and heat transfers simulations in fractured reservoirs	Université de Lorraine
	Pierre Anquez	MSc	PhD: Surface model repair and automatic creation of sealed geological models	Université de Lorraine
	Jonathan Edwards	MSc	PhD: Stochastic multi-well stratigraphic correlation	Université de Lorraine
	Gabriel Godefroy	MSc	PhD: Introducing more kinematic concepts in stochastic fault network modeling	Université de Lorraine
	Benjamin Chauvin	MSc	PhD: Integration of uncertainties during 3D structural restoration	Université de Lorraine
	Marion Parquer	MSc	PhD: Simulation and conditioning of sedimentary objects with surface and sub-surface data	Université de Lorraine
	Modeste Irakarama	MSc	PhD: Reduction of structural uncertainties associated with faults by waveform inversion	Université de Lorraine
	Antoine Mazuyer	MSc	PhD: Reservoir stress estimation by inverse approach	Université de Lorraine
	Nicolas Clausolles	MSc	PhD: Seismic interpretation of salt geobodies	Université de Lorraine
	Victor Haddad	BSc	MSc: Well correlation: faults, local subsidence and case study	Université de Lorraine



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	Yves Frantz	BSc	MSc: Stress analysis in fault damage zones using different behavior laws	Université de Lorraine
	Melchior Schuh-Senlis	BSc	MSc: Finite Difference wave simulation in homogenized geomodels	Université de Lorraine
	Charles Vouaux	BSc	MSc: Generation of oxbow lakes with subsurface data for stochastic simulation of eroded oxbows inside the channel belt	Université de Lorraine
	Nicolas Jules Goffaux	BSc	MSc: 3D geological and geochemical modeling of Zones 3 and 4 of the uranium McArthur River deposit, Saskatchewan, Canada	Université de Lorraine
	Maëlle Vergnaud	BSc	MSc: Simulation of thermal flow, the case of the geothermal power plant of Soultz-sous-Forets	Université de Lorraine
	Jean Langanay	BSc	MSc: Computing 3D illumination using ray tracing	Université de Lorraine
Scientific Activities during reporting year:	Date	Topic		Speaker/Occasion
	Internal seminars organized by the members and given by the members			
	22/07/2016	Restoration of an extensional analog model: definition and validation of boundary conditions used in 3D mechanics-based restoration		Benjamin Chauvin/Internal Seminar



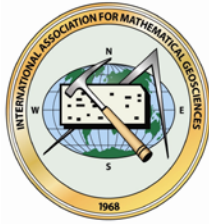
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	26/08/2016	Stochastic simulation of channel migration conditioned to subsurface data	Marion Parquer/Internal Seminar	
	09/09/2016	Feedback on the Gordon Research Conference on Flow and Transport in Permeable Media	Margaux Ragueneel/Internal Seminar	
	07/10/2016	Seismic interpretation of fault related deformation using a numerical kinematic model	Gabriel Godefroy/Internal Seminar	
	17/11/2016	A few words on parallel computing	Antoine Mazuyer and Modeste Irakarama/Internal Seminar	
	02/12/2016	SEG 2016 - Feedback	Gabriel Godefroy/Internal Seminar	
	09/12/2016	Integrated inverse method to estimate virgin stress state in reservoirs and overburden : Validation of the method with a synthetic case.	Antoine Mazuyer/Internal Seminar	
	13/01/2017	Corrélation stratigraphique stochastique multi-puits : Bilan de ma thèse	Jonathan Edwards/Internal Seminar	
	20/01/2017	Appraising structural interpretations using seismic data misfit functionals	Modeste Irakarama/Internal Seminar	
	27/01/2017	Sealing and simplification of 3D structural surface geomodels	Pierre Anquez/Internal Seminar	



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	03/02/2017	Modélisation cinématique des failles et des incertitudes associées	Gabriel Godefroy/Internal Seminar	
	17/02/2017	Ideas to write clean code - why should I take the time to write a code more readable than a Georg Simmel's book ?	Nicolas Clausolles/Internal Seminar	
	17/03/2017	3D geological modeling of the Athabasca Basin - Structurally controlled uranium distribution in the McArthur River zones 3 and 4?	Nicolas Jules Goffaux/Internal Seminar	
	14/04/2017	Qualité et amélioration continue : l'exemple de la méthode des 5S	Pierre Anquez/Internal Seminar	
	05/05/2017	Heat and flow simulation in fractured reservoirs on unstructured meshes, mid-candidature review	Margaux Raguanel/Internal Seminar	
	Internal seminars organized by the members and given by non-members			
	13/07/2016	Finite element method on hybrid hexahedral-tetrahedral meshes	Maxence Reberol/Internal Seminar	
	24/08/2016	Tales of a geomodeler in Calgary	Thomas Jerome/Internal Seminar	
	01/09/2016	Understanding how hydrothermal systems work	Thomas Driesner/External Seminar	



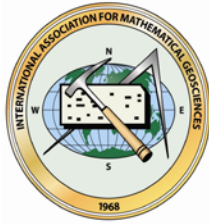
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	25/11/2016	Tools for development and collaborative work	Francois Bonneau/Internal Seminar	
	06/01/2017	What it takes to solve an inverse problem with an unknown number of model parameters	Guillaume Caumon/Internal Seminar	
	03/03/2017	MXSim: Mineral and chemical reaction simulation in Gocad	Gautier Laurent/Internal Seminar	
	10/03/2017	Analysis of the impact of sedimentary factors on the hydro-mechanical behaviour of passive margins with TemisFlow	Priscille Colin/Internal Seminar	
	31/03/2017	Prospectivity modelling	Helmut Schaeben/External Seminar	
	07/04/2017	Macros in SKUA 17	Fabien Bosquet/Internal Seminar	
	12/05/2017	A Workflow for Correlated Discrete Fracture Network Simulation Constrained by Microseismic Data	Francois Bonneau/Internal Seminar	
	02/06/2017	Seismic energy focalization by temporal reversal	Paul Cupillard/Internal Seminar	
	23/06/2017	Multiple mineralizing events at the Cigar Lake Uranium deposit (Athabasca, Canada): their	Pierre Martz/Internal Seminar	



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	geochemical features, significance and 3D spatial distribution		
Presentations and posters by the members to national or international conferences			
05-09/09/2015	Stochastic simulation of channel migration conditioned to subsurface data	Marion Parquer / Presentation / 10th International Geostatistical Congress, Valencia, Spain	
22-23/09/2016	Introducing more kinematics while modeling faults from sparse data	Gabriel Godefroy / Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	On the influence of stratigraphic correlation uncertainty in sedimentation rate determination - A training-based method	Jonathan Edwards / Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	3D geological surface model repair: application to restored models	Pierre Anquez / Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	Reconstruction of channelized systems through a conditioned backward-migration method	Marion Parquer / Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	Consistent boundary conditions in 3D mechanics-based restoration: validation on an extensional sandbox model and guidelines	Benjamin Chauvin / Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	Integrated inverse method to estimate virgin stress state in reservoirs and overburden	Antoine Mazuyer / Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	Heat and fluid flows in the geothermal reservoir of Vieux-Habitants, Basse-Terre, Guadeloupe.	Margaux Raguanel/ Presentation / 2016 RING Meeting, Nancy, France	
22-23/09/2016	Cutting a tetrahedral mesh by implicit surfaces	Margaux Raguanel/ Poster / 2016 RING Meeting, Nancy, France	



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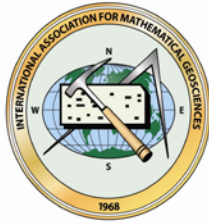
22-23/09/2016	Reducing fault-related structural uncertainties by ranking models using seismic data misfit functions	Modeste Irakarama / Presentation / 2016 RING Meeting, Nancy, France
22-23/09/2016	Seismic modeling & imaging on GPU	Modeste Irakarama / Poster / 2016 RING Meeting, Nancy, France
22-23/09/2016	Generalized Hoek-Brown elasto-plasticity and stress state estimation nearby faults	Nicolas Clausolles / Presentation / 2016 RING Meeting, Nancy, France
16-21/10/2016	Seismic interpretation of fault related deformation using a numerical kinematic model	Gabriel Godefroy / Presentation / SEG Annual meeting, Dallas, USA
02/02/2017	Automatic sealing and simplification of 3D geological models using topology recovery	Pierre Anquez / Poster / Doctoral School Annual Seminar, Nancy, France
02/02/2017	Reducing fault related structural uncertainties	Modeste Irakarama / Poster / Doctoral School Annual Seminar, Nancy, France
02/02/2017	Sensitivity analysis on the modeling of flows and heat transfers in the geothermal field of Basse-Terre, Guadeloupe	Margaux Ragueneil / Poster / Doctoral School Annual Seminar, Nancy, France
12-16/06/2017	Automatic sealing and simplification of 3D geological surface models using topology recovery	Pierre Anquez / Presentation / 79 th EAGE Conference and Exhibition, Paris, France
12-16/06/2017	A parametric Unfault-and-Refault method for chronological structural modeling	Gabriel Godefroy / Presentation / 79 th EAGE Conference and Exhibition, Paris, France
12-16/06/2017	Appraising structural interpretations using seismic data misfit functionals	Modeste Irakarama / Presentation / 79 th EAGE Conference and Exhibition, Paris, France
12-16/06/2017	Integrated inverse method to estimate virgin stress state in reservoirs and overburden	Antoine Mazuyer / Presentation / 79 th EAGE Conference and Exhibition, Paris, France



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	12-16/06/2017	On the chronological ordering of oxbow lakes for reverse migration of channels conditioned to subsurface data	Marion Parquer / Presentation / 79 th EAGE Conference and Exhibition, Paris, France
	12-16/06/2017	Sensitivity analysis on the modeling of flows and heat transfers in the geothermal field of Basse-Terre, Guadeloupe	Margaux Ragueneil / Poster / 79 th EAGE Conference and Exhibition, Paris, France
Field trip to discover karsts environments – Val de Travers area, Switzerland, 8th-12th July			
Budget for reporting year:	Item	Budgeted	Expenditure
	Seminars:	0	0
	Invited Speakers:	500 €	0
	Excursions:	2500 €	2500 €
	Other:	0	0

Funding requested:	This year, we did not use any money for the organization of seminars with external speakers because we took benefit of their visit to Nancy for other purposes. Next year, we will use the remaining money to invite people especially for the seminars.
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	<p>After this year's trip, we are thinking of organizing a biggest one. This requires more money and more time, so we will certainly plan it for the end of 2018 or the beginning of 2019. In prevision to the organization of this excursion, we would like to request 1000 €, to have a basis for our planning.</p>		
Proposed budget:	Item	Budgeted	Expenditure
	Seminars:	0	0
	Invited Speakers:	500 €	500 €
	Excursions:	1000 €	0
	Other:	0	0
Planned activities:	<ol style="list-style-type: none"> 1) Organization of internal seminars each week from September 2017 to June 2018 2) Migration of the web site to the new ring-team host 3) Organization of a field trip in October 2018 or March 2019 		