

XVI ALAGO

- Oral Presentations -



9 – 11 AUGUST, 2023 Aracaju, Sergipe, Brazil

	Wednesday 08/09/2023
09:00 - 09:30	Oppening Ceremony
09:30 - 10:00	Talk XIX CBGg
10:00 – 10:30	Knowledge through ultrahigh resolution mass spectrometry in Petroleum E&P
	Thomas Oldenburg, University of Calgary, Canada
10:30 - 11:00	Coffee Break
	Session I - Organic Geochemistry in Latin America - A Reflection
	on its Past, Present, and Vision for the Future
	Chair: Débora de Almeida Azevedo, UFRJ, Brazil
11:00 – 11:30	THE HISTORY OF ORGANIC GEOCHEMISTRY IN LATIN AMERICA Luiz Antônio F. Trindade, UFRJ, Brazil
11:30 – 12:00	50-YEAR JOURNEY OF THE GEOCHEMISTRY PROGRAM (UFF) IN THE NATIONAL AND INTERNATIONAL CONTEXT
12:00 – 12:30	Marcelo Bernardes, UFF, Brazil USING GEOCHEMICAL TECHNOLOGIES TO SUPPORT THE JOURNEY OF ULTRA DEEP WATERS PETROLEUM DISCOVERIES IN SERGIPE BASIN
12:30 – 14:00	Igor Viegas Alves Fernandes de Souza, Petrobras, Brazil Lunch
12.30 - 14.00	
	Session II – Petroleum System & Rock, Oil and Gas
	Characterization
14:00 – 14:40	Chair: Luiz Antônio F. Trindade, UFRJ, Brazil POTENTIAL OF THE SOURCE ROCKS IN THE CEARÁ AND POTIGUAR BASINS, ON THE BRAZILIAN EQUATORIAL MARGIN: A NEW EXPLORATORY FRONTIER
-	Narelle Maia de Almeida, UFC, Brazil THE IMPORTANCE OF USING LOCAL KINETICS ON MODELLING PETROLEUM SYSTEMS:
14:40 – 15:00	PARNAIBA BASIN ATYPICAL PETROLEUM SYSTEM CASE STUDY Henrique Araújo Lopes, ENEVA, Brazil
15:00 – 15:20	OCCURRENCE OF IMMATURE CONDENSATE IN BIOGENIC GAS FROM COLOMBIAN CARIBBEAN AND ITS GEOLOGICAL IMPLICATIONS André Luiz Durante Spigolon, Petrobras, Brazil
15:20 - 15:40	FT-ICR-MS CHARACTERIZATION OF NSO COMPOUNDS IN CRUDE OIL AND ITS GEOCHEMICAL IMPLICATIONS Jorge Armando Orrego-Ruiz, Ecopetrol, Colombia
15:40 – 16:00	USE OF THE NITROGEN MARKERS FOR PALEODEPOSITIONAL EVALUATION OF THE CANDEIAS (RECÔNCAVO BASIN) AND BARREIRINHA (AMAZONAS BASIN) FORMATION Diego Nery Do Amaral, UFBA, Brazil
16:00 – 16:30	Coffee Break
16:30 – 17:00	Poster Session I
17:00 – 17:30	ALA, ALB, ALC, ALD and ALF
17:30 – 18:00	
18:00 – 19:00	Cultural Event 01
19:00 – 20:00	



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	Thursday 08/10/2023
	Session III - Isotopic & Reservoir Geochemistry
	Chair: Alexandre de Andrade Ferreira, Petrobras, Brazil
09:00 - 09:50	NOVEL ISOTOPIC METHODS TO TRACE THE ORIGIN AND HISTORY OF ORGANIC
	MOLECULES
	Alexis Gilbert, Tokyo Tech, Japan
09:50 - 10:10	ELEMENTAL AND ISOTOPIC COMPOSITION OF SEDIMENTARY ORGANIC MATTER FROM
	ADMIRALTY BAY (KING GEORGE ISLAND, ANTARCTICA) Viviane Korres, UFPR, Brazil
10:10 – 10:30	STABLE ISOTOPE ANALYSIS OF BENZOIC ACID USING ELECTROSPRAY ORBITRAP
10:10 - 10:30	MASS SPECTROMETRY
	Gabriel Franco Dos Santos, UFG, Brazil
10:30 - 11:00	Coffee Break
11:00 – 11:30	RESERVOIR GEOCHEMISTRY 4D: THE USE OF FINGERPRINTING AS A WAY TO
	MONITOR WAG EFFICIENCY
	Joelma Pimentel Lopes, Petrobras, Brazil
11:30 – 11:50	IDENTIFYING PRE-SALT CRUDE OILS COMPOSITIONAL VARIATIONS IN PRODUCTION
	MONITORING BY COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY
44.50.40.40	Clarisse Lacerda Torres, UFRJ, Brazil
11:50 – 12:10	COMPARATIVE ANALYSIS OF TWO HORIZONTAL WELLS IN THE VACA MUERTA FORMATION USING STABLE ISOTOPES IN HYDROCARBON GASES AND ROCK
	GEOCHEMICAL DATA
	Federico Daniel Weibel, INGEIS, Argentina
12:10 – 12:30	GEOCHEMICAL FINGERPRINTING ANALYSIS FOR ALLOCATION OF COMMINGLED OIL
12.10 - 12.50	PRODUCTION: A CASE STUDY
	Claudia Juliana Orejuela Parra, Ecopetrol, Colombia
12:30 – 14:00	Lunch
12:30 – 14:00	Lunch Session IV – Environmental Geochemistry & Biogeochemistry
	Lunch Session IV – Environmental Geochemistry & Biogeochemistry Chair: Marcelo Bernardes, UFF, Brazil
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9 – 11 AUGUST, 2023 Aracaju, Sergipe, Brazil

Session IV – Environmental Geochemistry & Biogeochemistry Chair Marcelo Bernardes, UFF, Brazil 09:00 – 09:50 TRADITIONAL MOLECULAR MARKERS AS INDICATORS OF ENVIRONMENTAL CHANGES ON THE SOUTH-SOUTHEAST COAST OF BRAZIL César C. Martins, USP, Brazil 09:50 – 10:10 GEOCHEMICAL CHARACTERIZATION OF DIOTIC CRISES FROM EARLY TO MIDDLE DEVONIAN IN POINTA GROSSA FORMATION, PARAMA BASIN Eliane Soares De Souza, UENF, Brazil 10:10 – 10:30 CHARACTERIZATION OF TERRESTRIAL ORGANIC CARBON DURING THE LAST GLACIAL FROM MARINE CORE IN THE WESTERN EQUATORIAL ATLANTIC Alice Maria Da Silva Rodrigues, UFF, Brazil 10:30 – 11:00 TOGRE Break T1:00 – 11:30 FROM ATOMS TO LANDSCAPES THROUGH TIME: BIOGEOCHEMICAL CYCLES AND THE CHEMICAL CONTROLS ON CARBONATE PRECIPITATION IN ALKALINE LAKES Raphael Pietzsch, Petrobras, Brazil 11:30 – 11:50 QUANTITATIVE ESTIMATIONS OF PRESETYATION OF ORGANIC CARBON DURING CRETACEOUS OCEANICA NOXIC EVENTS IN THE ESPIRITO SANTO BASIN Ingo Martins Venancio Padili ba Odivieria, UFF, Brazil 11:50 – 12:10 APPLICATION OF PENTACYCLIC ITRITERPENOL METHYL ETHERS IN RECENT SEDIMENTS: A NEW PALECEWINFONMENTAL INDEX? Vinicius Barreto Pereira, UFR, Brazil 12:10 – 12:30 IRON AND TRACE METALS GEOCHEMICAL INDEX Vinicius Barreto Pereira, UFR, Brazil 12:30 – 14:00 TARDITAL SHELF OF DOCE AND JEQUITINHONHA RIVERS, BRAZIL Javier Marcelino Salazar Rodriguez UFF, Brazil 14:00 – 14:40 PETROLEOMICS: FROM CRUDE OIL TO ASPHALTENES Chair: Alberto Wisniewski Junior, UFS, Brazil 15:00 – 15:20 GC-MSIMS APPLIED FOR THE IDENTIFICATION OF MOXED LANDAMIC COMPONINS PLAN COMPONINS ANALYSIS BY ULTRAHIGH-RESOLUTION MASS SPECTROMETRY Arquimedes Moraes Souza Coutinho, UFPB, Brazil 15:00 – 15:20 GC-MSIMS APPLIED FOR THE IDENTIFICATION OF MOXED LANDAMIC COMPONINS Bruno Quirino Arajo, UFES, Brazil 15:40 – 16:00 GENSUS OF GEOSCIENCES AND THE QUALITATIVE AND QUANTITATIVE ANALYSIS OF PROFESSIONAL INEQUALITIES JOSICA DE ARGANICA SANALYSIS OF PROFESSIONAL INEQUALITIES JOSICA DE SOUZA GAB BRAZIL ANALOGOUS. VICTOR RIBBIO PROFESSIO		Friday 08/11/2023
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Petroleum System & Rock, Oil and Gas Characterization

THE IMPORTANCE OF USING LOCAL KINETICS ON MODELLING PETROLEUM SYSTEMS: PARNAIBA BASIN ATYPICAL PETROLEUM SYSTEM CASE STUDY

Henrique Araújo Lopes, Eduardo de Mio

OCCURRENCE OF IMMATURE CONDENSATE IN BIOGENIC GAS FROM COLOMBIAN CARIBBEAN AND ITS GEOLOGICAL IMPLICATIONS

André Luiz Durante Spigolon, Jarbas Vicente Poley Guzzo, Igor Viegas A. F. de Souza

FT-ICR-MS CHARACTERIZATION OF NSO COMPOUNDS IN CRUDE OIL AND ITS GEOCHEMICAL IMPLICATIONS

Jorge Armando Orrego-Ruiz, Silvia A. Pedraza-Rodríguez, Jael Y. Pacheco-Mendoza, Fernando A. Rojas-Ruiz, Miguel F. Jimenez-jácome, Claudia J. Orejuela-Parra, María Del Rosario Sánchez-Fuentes

USE OF THE NITROGEN MARKERS FOR PALEODEPOSITIONAL EVALUATION OF THE CANDEIAS (RECÔNCAVO BASIN) AND BARREIRINHA (AMAZONAS BASIN) FORMATION Diego Nery do Amaral, Flávia Lima e Cima Miranda, Antonio Fernando Queiroz, Karina Santos Garcia, Maria Elisabete Machado, Sergio Luis Costa Ferreira

Isotopic & Reservoir Geochemistry

ELEMENTAL AND ISOTOPIC COMPOSITION OF SEDIMENTARY ORGANIC MATTER FROM ADMIRALTY BAY (KING GEORGE ISLAND, ANTARCTICA)

Viviane Korres Bisch, Satie Taniguchi, Marcia Caruso Bícego, Rafael André Lourenço, Amanda Câmara de Souza, César de Castro Martins

STABLE ISOTOPE ANALYSIS OF BENZOIC ACID USING ELECTROSPRAY ORBITRAP MASS SPECTROMETRY

Gabriel Franco dos Santos, Gesiane da Silva Lima, Giovanni B. Bevilaqua, Nerilson M. Lima, Rodrigo C. da Silva, Alexandre A. Ferreira, Boniek G. Vaz

RESERVOIR GEOCHEMISTRY 4D: THE USE OF FINGERPRINTING AS A WAY TO MONITOR WAG EFFICIENCY

Joelma Pimentel Lopes, Igor Vegas Alves Fernandes de Souza, Daniel Silva Dubois, Jarbas Vicente Poley Guzzo, Alexandre Jaime Mello Vieira, Alexandre de Andrade Ferreira, Marcia Ida de Oliveira Silva, Jose Sérgio de Araujo Cavalcante Filho, Victor de Souza Rios

IDENTIFYING PRE-SALT CRUDE OILS COMPOSITIONAL VARIATIONS IN PRODUCTION MONITORING BY COMPREHENSIVE TWO DIMENSIONAL GAS CHROMATOGRAPHY Clarisse Lacerda Torres, Dayane Magalhães Coutinho, Vinicius Barreto Pereira, Mônica Cardoso Santos, Luiz Antonio Freitas Trindade, Daniel Silva Dubois, Joelma Pimentel Lopes, Gabriela Vanini, Francisco Radler de Aquino Neto, Débora de Almeida Azevedo

COMPARATIVE ANALYSIS OF TWO HORIZONTAL WELLS IN THE VACA MUERTA FORMATION USING STABLE ISOTOPES IN HYDROCARBON GASES AND ROCK GEOCHEMICAL DATA Frederico Daniel Weibel, Martin Eugenio Fasola

GEOCHEMICAL FINGERPRINTING ANALYSIS FOR ALLOCATION OF COMMINGLED OIL PRODUCTION: A CASE STUDY

Claudia Juliana Orejuela Parra, Jael Yanine Pacheco, Claudia Juliana Quintero, David Cañas



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Environmental Geochemistry & Biogeochemistry

TRANSPORT OF TERRIGENOUS ORGANIC MATTER TO THE OCEAN RELATED TO PRECIPITATION EVENTS DURING THE LAST 18,000 YEARS IN THE AMAZON BASIN Gabriela Souza Gomes, Alice Maria da Silva Rodrigues, Igor Martins Venancio Padilha de Oliveira, Marcelo Corrêa Bernardes

EVALUATION OF THE MOLECULAR CHEMICAL PROFILE OF BRAZILIAN OILS FOR FORENSIC STUDIES AND INVESTIGATION OF ENVIRONMENTAL CRIMES Flavia Rodrigues Alvares, Vinícius Barreto Pereira, Ana Luiza Barboza S. Silva, Luiz Augusto de Oliveira Costa, Débora de Almeida Azevedo, Francisco Radler de Aquino Neto, Gabriela Vanini Costa

BIODEGRADATION OF THE SPILLED OIL ON THE BRAZIL'S NORTHEAST COAST OVER TIME (2019-2021) ASSESSED BY HIGH-RESOLUTION TECHNIQUES

Laercio Lopes Martins, Bárbara Diniz Lima, Vinícius Barreto Pereira, Danielle Mitze Muller Franco, Ignes R. dos Santos, Jandyson Machado Santos, Boniek Gontijo Vaz, Débora de Almeida Azevedo, Georgiana Feitosa da Cruz GEOCHEMICAL FORENSIC EVALUATION OF RECENTLY APPEARING TAR BALLS ON THE NORTHEAST COAST OF BRAZIL AND THEIR RELATIONSHIP WITH THE MYSTERIOUS 2019 OIL SPIL

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GEOCHEMICAL CHARACTERIZATION OF BIOTIC CRISES FROM EARLY TO MIDDLE DEVONIAN IN PONTA GROSSA FORMATION, PARANÁ BASIN

Eliane Soares de Souza, Luiza Rodrigues Rocha, Hélio Jorge Portugal Severiano Ribeiro, Luiz Carlos Bertolino,
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CHARACTERIZATION OF TERRESTRIAL ORGANIC CARBON DURING THE LAST GLACIAL FROM MARINE CORE IN THE WESTERN EQUATORIAL ATLANTIC

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FROM ATOMS TO LANDSCAPES THROUGH TIME: BIOGEOCHEMICAL CYCLES AND THE CHEMICAL CONTROLS ON CARBONATE PRECIPITATION IN ALKALINE LAKES

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Data Mining & Analytical Techniques

ASSESSMENT OF A POTENTIAL BIOMARKER FOR THERMAL EVOLUTION OF OILS FROM POLAR COMPOUNDS ANALYSIS BY ULTRAHIGH-RESOLUTION MASS SPECTROMETRY

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GC-MS/MS APPLIED FOR THE IDENTIFICATION OF NOVEL DIAROMATIC COMPOUNDS Bruno Quirino Araújo, Arkellau Kenned Silva Moura, Vinícius Barreto Pereira, Débora de Almeida Azevedo, Antônia Maria das Graças Lopes Citó

STOCHASTIC TOC MODELING FOR EAST AFRICAN RIFT SYSTEM LAKES, A POSSIBLE PRE-SALT ANALOGOUS.

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