

EDITORIAL NOTE

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1. Introduction

It is with great satisfaction that we disclose the creation of Journal of Sedimentary Environments (JSE), an open access journal that allows online publication of important articles in the fields of Sedimentology, Stratigraphy, Paleontology, Archeology, Biology (associated with sedimentary environments), Speleology, Biogeography, Oceanography, Environmental Sciences, Geophysics, Geochemistry, Energy Resources and related fields. The JSE was designed by the Department of Stratigraphy and Paleontology (DEPA), Faculty of Geology (FGEL) at the State University of Rio de Janeiro (UERJ) in order to fill a gap in Brazilian geoscientific research: the absence of a focused journal for the area of Sedimentary Geology. Given the representativeness and authority of the Brazilian community in this field of research, it is of fundamental importance to create a channel for communication and integration between Brazilian and foreign geoscientists. We believe that the JSE will play an important role in this process.

The JSE is a quarterly journal (four issues per year) in English and rigorously peer-reviewed. Its editorial board is composed of renowned national and foreign researchers from different areas of Sedimentary Geology, which are also editors of important journals focused on geosciences worldwide.

The creation of the JSE is also a tribute to the great masters of Sedimentary Geology who had and have a very important role, not only for the Faculty of Geology at UERJ and for Rio de Janeiro State, but also for Brazilian Geology: Maria Antonieta da Conceição Rodrigues, Hernani Aquini

Fernandes Chaves, Jorge Carlos Della Fávera, Pedro de Césaro (*in memoriam*) and René Rodrigues.

2. Tribute

2.1. Maria Antonieta da Conceição Rodrigues

Professor Maria Antonieta Rodrigues graduated (1968) and received her Masters degree (1971) in Geology from the Federal University of Rio de Janeiro (UFRJ). Her Doctoral degree in Geosciences was obtained at the Federal University of Rio Grande do Sul (UFRGS) (1981). She did her postdoctoral work at the University of Huelva (2003), Spain.

She did her internship in the Micropaleontology Laboratory at UFRGS, with Professor Darcy Closs, and in the Bernardino Rivadavia Natural Sciences Museum (Buenos Aires, Argentina), with Dr. Esteban Boltovskoy. She has great experience in the area of Micropaleontology and Stratigraphy, and published many scientific articles in prestigious periodicals and book chapters as well as several books.

Tutuca – as she is affectionately known to all – started her academic career at UFRJ in 1969, as a teaching assistant, climbing teaching levels until she reached the position of Adjunct Professor. She held administrative positions at UFRJ, becoming head of the Geology Department (DEGEO) and coordinator of the Graduate Program in Geology (PPGL).

In 1977, she established the field trip schedule for Paraná Basin, which was consolidated in the following years, not only by that institution, but later, also by the Federal Rural University of Rio de Janeiro (UFRRJ) and the State University of Rio de Janeiro (UERJ).



In 1982, she started teaching at UERJ, as a collaborator. While at UFRJ, Professor Maria Antonieta Rodrigues also taught Sedimentology classes at UFRJ and General Geology at Santa Úrsula University. She also gave training courses for geologists and geophysicists from Petrobras. She retired from UFRJ in 1992.

In 1993, Professor Maria Antonieta Rodrigues became a full time Adjunct Professor at UERJ. She participated in the creation of the Basin Analysis and Mobile Belt Graduate Program (PPGABFM) of UERJ, where she was coordinator for five years. Throughout her academic life at UERJ, she supervised several postdoctoral students, advised numerous doctoral theses, masters dissertations and scientific initiation studies.

In 2000, she became Full Professor of the Faculty of Geology (FGEL) of UERJ. She was coordinator of the Geosciences area of Rio de Janeiro's Carlos Chagas Filho Foundation for Research (FAPERJ), between 2000 and 2005. She held various administrative positions at UERJ, such as chief of the Department of Stratigraphy and Paleontology (DEPA), FGEL director, and advisor to the Graduation Sub-Rector. She was also a member of

university councils (CESEP and CONSUNI). For ten years, she was a researcher of Brazil's National Council of Technological and Scientific Development (CNPq).

Among the numerous honors that she received, she was awarded the Henri Gorceix medal, from the Brazilian Geological Society, for her relevant contribution to human resources development at UFRJ and UERJ. At these institutions, she advised dozens of undergraduate, masters and doctoral research projects, having also coordinated and participated in important institutional projects, particularly in the areas of Stratigraphy, Biostratigraphy, Heritage Preservation, and Scientific Dissemination.

Throughout her academic life, Tutuca participated in many examination boards for public tenders for professorial positions, and for doctoral, masters and undergraduate examinations. Due to her renown among Brazilian paleontologists, she was invited to participate in the examination board for a professorship at Évora University, in Portugal.

She also participated in several international agreements established during field activities, and in scientific events, including a visit to the type-locality of the Praguian, in

Prague, Czechoslovakia, and a field trip studying the Paleozoic of South Belgium, supervised by professors from Liège University.

She retired from UERJ in 2013, where she is currently a Visiting Researcher. Throughout the last 47 years, Professor Maria Antonieta Rodrigues dedicated herself profoundly to teaching Stratigraphy and Paleontology. During that time, she collaborated in the formation of hundreds of professors, researchers, and other professionals in the area of Sedimentary Geology. Many of her students are today renowned researchers and professors in the most varied universities and companies in Brazil.

Tutuca, the 5th geologist graduated in Brazil, is, without doubt, the scientific mother of a good part of Brazilian Sedimentary Geology.

2.2. *Hernani Aquini Fernandes Chaves*



Professor Hernani Chaves was graduated in Agronomy from the Federal University of Pelotas (1958), received a specialization degree from the Federal University of Bahia (UFBA) (1960), a Master's degree in Informatics from

Pontifical Catholic University of Rio de Janeiro (1978), and a Doctoral degree in Geosciences from the Federal University of Rio Grande do Sul (2000).

Professor Hernani Chaves was a FAPERJ Visiting Professor Emeritus (Visiting Researcher); retired as a Geologist from Petrobras and as Adjunct Professor the Faculty of Geology at the State University of Rio de Janeiro (UERJ).

Professor Hernani Chaves teaches Energy Resources at the Faculty of Geology, and Petroleum Economy at the Faculty of Engineering, at UERJ. In the Graduate Program, he is responsible for the disciplines of Quantitative Stratigraphy and Basin Assessment. He is Scientific Coordinator of the Specialization Course in Seismostratigraphic Interpretation, a joint initiative of UERJ, Statoil and Schlumberger, and also teaches in the course.

He taught Stratigraphy and Sedimentology at the Faculty of Geology at UFBA, from 1966 to 1968; Quantitative Stratigraphy at Petrobras' own Academy for Geologists, in Salvador, Bahia, in 1964/65; and Statistics Applied to the Geosciences, at the Geosciences Department of the Federal University of Rio de Janeiro (UFRJ), from 1979 to 1989. He has been with the Faculty of Geology, at UERJ, since 1990.

Currently, Prof. Hernani is an Emeritus member of the American Association of Petroleum Geologists (AAPG); coordinator of the PETROUERJ Research Group, of Brazil's National Council of Technological and Scientific Development (CNPq); member of the Brazilian Society of Geology (SBG); collaborator of the International Geological Correlation Program (IGCP); Chartered Member of the International Association for Mathematical Geology; member of the E&P Permanent Commission of the Brazilian Petroleum and Gas Institute (IBP); technical and scientific advisor and consultant to the State Research Foundations of Rio de Janeiro (FAPERJ), São Paulo (FAPESP), Bahia (FAPEBA) and Pernambuco (FAPEPE); consultant to the Brazilian Studies and Projects Financing Agency (FINEP); collaborator of the CNPq; and ad hoc judge of the Annals of the Brazilian Academy of Sciences.

Professor Hernani Chaves has experience in Geoscience, with emphasis on Geomathematics, working mainly with petroleum exploration, geoeconomic assessment of energy mineral resources, sedimentary basin analysis, petroleum geology, sequence stratigraphy, and geomathematics.

At Petrobras, Professor Hernani Chaves worked in the early development of the oil industry in Brazil. A pioneer in

the use of computers in Geology, he implemented the first data bases for wells, gravimetry and geochemistry data in Brazil. He was manager of the Brazilian Continental Margin Survey Project (REMAC), which surveyed and mapped the Brazilian continental margin, and published numerous works, as well as 17 detailed bathymetry maps; he also coordinated the publication of the 11 annals of the Project, which even today are reference works.

At UERJ, Professor Hernani Chaves was one of the founders of the Graduate Program of the Faculty of Geology, along with Professor Jorge Della Fávera. Later, in 2002, he also founded the first AAPG Student Chapter in Brazil, at UERJ. In 2012 he incited the student members of the UERJ Student Chapter to participate in the Imperial Barrel Award (IBA), the AAPG annual international competition, and is still Chapter Advisor. In 2013, he had the satisfaction of seeing the team from the UERJ Chapter win first place in the Regional Competition (Latin America) and participate in the finals of the international competition, in only the second year that the UERJ Student Chapter participated in the IBA.

In Brazil, Professor Hernani Chaves was one of the pioneers in the assessment of yet-to-find-oil resources, utilizing a methodology involving modeling the exploration process. Since the 1980s, Professor Hernani Chaves has been publishing results of such assessments for Brazilian basins. Recently, he has carried out research regarding potential yet-to-find-oil in regions such as the Brazilian pre-salt, which resulted in works that achieved great international repercussion.

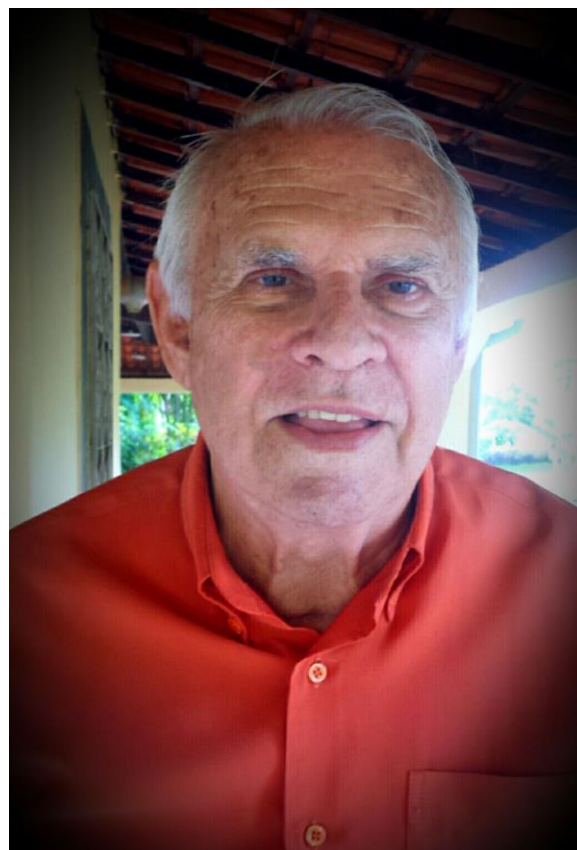
Professor Hernani Chaves continues dedicating efforts to several projects, and has been involved in themes such as unconventional resources, energy geopolitics, and geoeconomic analysis of the oil industry. He included many environmental and sustainability themes as current topics in his classes on energy resources.

Always ahead of his time, Professor Hernani Chaves continues to offer his experience and knowledge in the scientific supervision of students and in providing excellent training to technicians in the industry.

2.3. Jorge Carlos Della Fávera

Professor Della Fávera graduated in Geology from the Federal University of Rio Grande do Sul (UFRGS) (1963). In 1971 and 1977, he participated in specialization courses at

Illinois University (USA), with Professor George deVries Klein, and in the Tremp-Pamplona Basin, with Professor Emiliano Mutti, respectively. He received a Doctoral degree in Stratigraphy and Depositional Systems from UFRGS (1990).



He joined Petrobras in 1964, and worked as a Surface Geologist (1965), Well Geologist (1966-1968), Interpretation Geologist (1968-1973), and Stratigrapher (1973-1985). He was the founder of the Petrobras Geosciences Bulletin in 1987, and remained member of its editorial board for several years after he left Petrobras.

In 1985 he became head of the Exploration Division of Petrobras' Research Center (CENPES), leaving in 1988. During approximately 15 years, he coordinated and participated in the "Parnaíba Basin facies and depositional systems" Course, maintained by Petrobras. In 1990, he was the founder of the graduate course in Stratigraphy, under a Petrobras-UFRGS agreement. From 1990 to 2000, he was professor and advisor of various theses and dissertations.

In 1991, he joined the State University of Rio de Janeiro (UERJ) as Adjunct Professor of Stratigraphy. In 1994, after

defending a new thesis, he became a Full Professor (Stratigraphy) at UERJ.

From 1992 to 2008, he coordinated several projects involving Paleozoic coal in Paraná, Santa Catarina and Rio Grande do Sul states, and in rift basins, as well as projects involving the use of laser scanning equipment in Paraná Basin. One of his last projects was the study of seven basins in Brazil and Chile, with the objective of identifying analogs for Brazilian basins. He retired from UERJ in 2008, and became a consultant to STARFISH, and later to SONANGOL-STARFISH, where he carried out studies regarding fractured reservoirs, tight sands, stromatolites, and others.

In 1994, he participated in a field assignment for BRASPETRO, studying the facies and environments of the Murzuk Basin, Libya, from which a photographic atlas was prepared of the sedimentary facies. In 2001, he wrote "Fundamentos da Estratigrafia Moderna" ("Foundations of Modern Stratigraphy"), a best-seller of the UERJ Publishing unit.

At UERJ, he taught classes and was advisor for 12 doctoral theses, 25 masters dissertations, and 36 specialization monographs. He was also one of the founders of the Graduate Program of the Faculty of Geology, along Professor Hernani Aquini Fernandes Chaves. Throughout his academic life, he was constantly sought after to participate in examination boards of the most prestigious universities in Brazil.

In 2012, he received the Rodi Medeiros prize from the Brazilian Association of Petroleum Geologists, for his contribution to the study of Brazilian sedimentary basins.

Back at Petrobras, from 2013 to 2015, he worked with tight sand reservoirs, in the Recôncavo Basin, and with depositional facies and carbonatic reservoir systems of the pre-salt layer of the Campos and Santos Basins, and their interpretation based on image logs.

He also published a series of papers about petroleum geology and coal, in national and international periodicals.

Finally, Professor Della Fávera was a pioneer in the dissemination of concepts of Sequence Stratigraphy in Brazil, both through his work at Petrobras, and throughout his academic life.

2.4. Pedro de Césaro (in memoriam)

Professor Pedro de Césaro graduated in Geology from the Federal University of Rio Grande do Sul (UFRGS) (1963). He joined Petrobras in 1964, where, through

numerous specialization courses, he became a unique professional, highly dedicated and constructive.



At Petrobras, he directed specialization courses in Well Logging for Schlumberger (1964), Sedimentary Petrography (1970), Special Projects in Stratigraphy (1971), Mathematics applied to geological data processing (1976), Petroleum Engineering for Geologists (1978), New Exploratory Techniques (1977), and Pyrenees Sedimentary Environment Seminar (1978). Between 1985 and 1987, he was Visiting Professor at the State University of Rio de Janeiro, after which he became Auxiliary Professor until 1994. He then converted his status to Exclusive Dedication at UERJ, where he remained a collaborator until 2008.

Always willing to help and convey his acquired knowledge, Professor Pedro de Césaro became a reference in Sedimentary Petrography in Brazil. In 1985, he began to teach the Sedimentology and Sedimentary Petrography and Petroleum Geology disciplines. His experience at Petrobras, giving training courses, consolidated his innate vocation as a builder of human resource talent.

Pedrinho, as he was warmly known to all, lived surrounded by students, whether in class or elsewhere. An innovator, he was always adapting and idealizing pieces of equipment with an eye towards the real materialization of his vanguard ideals. In relation to administrative duties, he assumed the responsibilities of being head of the

Stratigraphy and Paleontology Department, from 1996 to 2000, representing the Department before the most varied superior instances of the University, and carrying out a most extraordinary work in the Geosciences Library.

Professor Pedro de Césero was a member of the faculty of the Basin Analysis and Mobile Belt Graduate Program (Specialization, Masters and Doctoral degrees), where, once more, he leveraged his knowledge, which in turn led him to advise many theses and dissertations. Invited to teach courses in his area of expertise, he "transited" through several universities, spreading his vast knowledge at places such as the Federal University of Rio Grande do Sul, the Federal University of Rio de Janeiro, the Federal University of Ouro Preto, and the Catholic University of Salvador.

The renown of Pedrinho in the area of Sedimentary Geology led him to be honored, both by the company where he began his professional career (Sedimentary Petrography Laboratory at CENPES/Petrobras), in 1997, as well as in the academic world, by the Federal University of Ouro Preto, in 1993. At UERJ, he will always be remembered, since the Pedro de Césero auditorium of the Faculty of Geology is named after him.

The fact that he did not pursue *stricto sensu* graduate studies to complement his vast legacy, in no way diminishes his merit. Professor Pedro de Césero overcame the need for academic titles, since he is considered by the Brazilian scientific community as a Doctor "Honoris Causa".

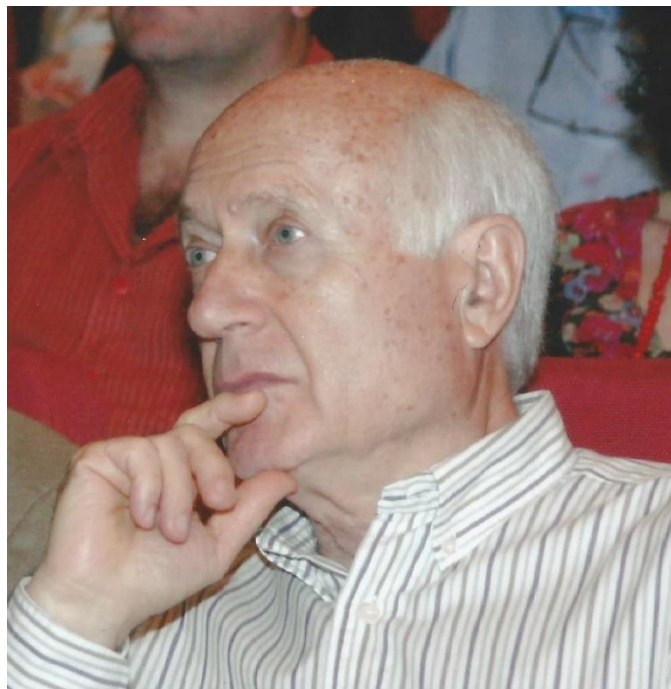
2.5. *René Rodrigues*

Professor René Rodrigues graduated in Geology from the Federal University of Rio Grande do Sul (1961) and received his Doctoral degree in Geology from the Federal University of Rio Grande do Sul (UFRGS) (1995).

He was a geologist for Petrobras between 1962 and 2001, and Adjunct Professor at the State University of Rio de Janeiro (UERJ), between 2002 and 2007. He retired from Petrobras in 2001, and from UERJ in 2008. Since 2008, he is a Visiting Researcher of the Human Resources Formation Program (PRH17), under an ANP/UERJ agreement.

He has experience in Petroleum Geology, with emphasis in organic geochemistry, chemical stratigraphy, and basin analysis. He is ad hoc consultant to Brazil's National Council of Technological and Scientific Development (CNPq), and to Rio de Janeiro's Carlos Chagas Filho Foundation for Research (FAPERJ). He is a collaborating member of the

Basin Analysis and Mobile Belt Graduate Program (PPGABFM) of UERJ, where he has advised Masters (25) and Doctoral (11) students, and also *lato sensu* monographs (8).



Due to his scientific notoriety, he has frequently been invited to participate in public employment (8), Masters (42), Doctoral (19), Doctoral Qualification (8), and Undergraduate Course Completion (43) examination boards.

His successful professional career also includes numerous international exchanges with various academic institutions and companies, such as: Institut Français du Pétrole (IFP), France; Société Nationale des Pétroles d'Aquitaine (SNPA), currently TOTAL, France; Petroleos Mexicanos (PEMEX), México; Centre des Faibles Radioactivités (CFR), France; Bundesanstalt Für Geowissenschaften Und Rohstoffe (BGR), Hannover, Germany; Pecten Research Center Laboratories, currently Shell Technology Center Houston (STCH), USA; Amoco Corporation, Tulsa, Oklahoma; University of Oklahoma; Petróleos del Perú, Petroperú S.A.; and EP Petroecuador, Ecuador.

Throughout his academic career, Professor René Rodrigues collaborated with several Brazilian universities, such as Federal University of Bahia (UFBA), Fluminense Federal University (UFF), Federal University of Rio de

Janeiro (UFRJ), Federal University of Pará (UFPA), Federal University of Pernambuco (UFPE), Federal University of Ouro Preto (UFOP), Federal University of Rio Grande do Sul (FURG), UNISINOS, São Leopoldo, Rio Grande do Sul, and University of Vale do Itajaí (UNIVALI), Itajaí, Santa Catarina.

Professor René Rodrigues was responsible for the implementation of the Organic Geochemistry area at Petrobras, in 1971, and for the Chemical Stratigraphy area, in 1991. Since 2009, he coordinates the National Oil and Gas Institute – Unconventional Resources (INOG), which seeks to consolidate the State of Rio de Janeiro as a national reference center for the qualification of professionals in the oil and gas industry.

Currently, at UERJ, Professor René Rodrigues coordinates the laboratory of which he was the mentor, the Chemical Stratigraphy and Organic Geochemistry

Laboratory (LGQM), which is considered one of the foremost laboratories in the field, in South America.

Among the numerous prizes he received, Professor René Rodrigues was honored with the Henri Gorceix medal, from the Brazilian Geological Society, for his contribution to human resources development; the II and IV Oscar Niemeyer Prize for his achievement in the academic world; the CENPES Excellence in Results Prize; the Rodi Medeiros Prize of the Brazilian Association of Petroleum Geologists (ABGP); and the Professional Merit Medal of the Regional Engineering and Agronomy Council of Rio de Janeiro (CREA/RJ).

Professor René Rodrigues is considered a planet surrounded by satellites. His students are always with him, in order to absorb his great knowledge, acquired throughout his professional career. The attraction that this planet exerts over his satellites is based on the generosity and willingness with which he conveys his knowledge and experience.

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