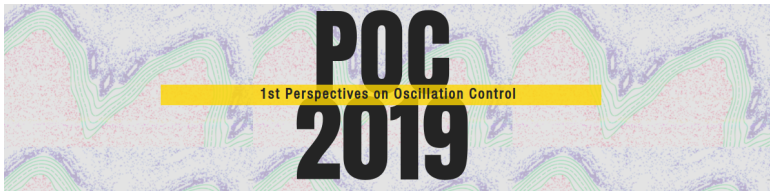

07 de Novembro de 2019	
09:00 - 09:30	Opening Session
Session I	Chair: Antonio Marcos Batista Chronos: Michele Mugnaine
09:30 - 10:10	**Ricardo Luiz Viana**
10:10 - 10:40	Coffee break
Session II	Chair: Andre Luís Prando Livorati Chronos: Matheus Hansen Franscico
10:40 - 11:05	**Francisco Eugenio Mendonca da Silveira**
11:10 - 11:35	**Ricardo Egydio de Carvalho**
11:40 - 12:05	**José Danilo Szezech Jr.**
12:10 - 14:00	Lunch
14:00 - 14:05	Opening Session
Session III	Chair: Arthur Lopes da Silva Valencio Chronos: Roberto Budzinski
14:05 - 14:35	**Fabrice Doveil**
14:40 - 15:00	**Gisele Akemi Oda**
15:05 - 15:25	**Everton S. Medeiros**
15:30 - 16:00	Coffee break
Session IV	Chair: Celso Abud Chronos: Paulo Protachevicz
16:00 - 16:20	**Meirielen Caetano de Sousa**
16:25 - 16:55	**Marisa Roberto**
17:00 - 17:30	**Digital Presentation** Celso Grebogi Jürgen Kurths Murilo da Silva Baptista
17:30 - 17:35	Final Session

08 de Novembro de 2019	
09:00 - 09:10	Opening Session
Session V	Chair: Ewandson Luiz Lameu Chronos: Fernando da Silva Borges
09:10 - 09:30	**Marcio Eisencraft**
09:35 - 09:55	**Sérgio Roberto Lopes**

10:00 - 10:20	**Rene O. Medrano Torrico**
10:25 - 10:50	Coffee break
Session VI	Chair: Thiago de Lima Prado Chronos: José Trobria
10:50 - 11:10	**Hilda Cerdeira**
11:15 - 11:45	**Elbert Einstein Nehr Macau**
11:50 - 12:10	**Silvio Luiz Thomaz de Souza**
12:15 - 14:00	Lunch
Session VII	Chair: Edson Denis Leonel Chronos: Kelly Cristiane Iarosz
14:00 - 14:30	**Zwinglio Guimarães-Filho**
14:35 - 15:05	**Lia Queiroz do Amaral**
15:10 – 16:00	**José Carlos Sartorelli**
16:00 – 16:30	**Iberê L. Caldas**
16:40	Closing Session and coquetel

HISTÓRICO

Session I	**Chair: Antonio Marcos Batista** **Chronos: Michele Mugnaine**
About Chair	Professor Antonio was a PhD student of Professor Ricardo and met Professor Iberê in 1996. Professor Iberê was member of evoluetor committe of the dissertation and thesis of Professor Antonio, and from 2004 to 2006, 2015 to 2017, the Professor was a postdoctoral supervisor Since every, they work together.
About Chronos	Michele was a master student of Prof. José Danilo at the State University of Ponta Grossa. Professor José introduced Professor Iberê to Michele. She is currently a Ph.D student of Professor Ricardo at Federal University of PR. Professor Iberê was member of the Michele Master's Evolution and they have fruitful collaborations.
09:30 - 10:10	**Ricardo Luiz Viana** He has a graduated in Fisica (Bacharelado) from Universidade Federal do Paraná, master and Ph.D in Physics at Universidade de Sao Paulo. In 1997, he worked as a Research Scholar in the University of Maryland at College Park (US), in the field of chaos theory. He works at Universidade Federal do Parana since 1989, where is currently Full Professor in the Department of Physics. **Special Info** Professor Ricardo met Professor Iberê in 1985, when he was accompanying some colleagues from Curitiba who were looking for a supervisor at the USP Institute of Physics. At that time, Professor Iberê had a great relationship with UFPR, because at the time he mentored a Professor from the UFPR Physics Department, Prof. Alcione Fernandes. Later, Professor Ricardo was finishing his Master's degree and met with Professor Iberê on the circular bus. They talked about an area in which Professor Iberê will start working on "Nonlinear Dynamics". Professor Iberê had returned from Germany, where he had done some interesting work on limit cycles. Professor Ricardo was very interested in the subject and this bus conversation evolved into a Doctorate orientation which was completed in April 1991.

Session II	**Chair: Andre Luís Prando Livorati** **Chronos: Matheus Hansen Franscico**
About Chair	Conheci o prof ibere em 2009 no evento do lawnp em búzios. Depois ele foi banca do meu mestrado em fevereiro de 2011. Quando entrei no doutorado em 2011 no IfUsp, graças ao professor Ibere, que foi meu co-orientador, obtive muito êxito nas minhas pesquisas. Muitas das descobertas e avanço nos fenômenos não lineares interpretados, foram insights das conversas que tive com ele. Durante meu pos doc continuamos colaborando com novas descobertas para fenômeno não lineares. Já são mais de 10 publicões em parceria.
About Chronos	

10:40 - 11:05	**Francisco Eugenio Mendonca da Silveira** Professor Francisco holds a Bachelor of Physics degree from the Federal University of Espírito Santo, a Master's and Doctorate degree in Physics from the Institute of Theoretical Physics Foundation. He is currently Associate Professor II at the Federal University of ABC. **Special Info** After a two-year post-doc, 2000-01, in Paris (Sorbonne), when Professor Francisco became interested in soliton stability in hydrodynamics, He approached the plasma physics group at Instituto de Física, Universidade de São Paulo. By that time, Professor Francisco did not know anything about plasmas, so he decided to start by studying its phenomenology. Among the faculty in the plasma group, it was impossible not to notice the Professor and his entourage of a dozen students. That was Iberê. Since then, taking part of the “Oscillations Control and Chaos” seminars, either as a speaker or as a listener, has been one of favourite academic activities of Professor Franscisco.
11:10 - 11:35	**Ricardo Egydio de Carvalho** Bachelor's at Physics from Universidade Federal de São Carlos Master and Ph.D at Physics from Universidade Estadual de Campinas. Has experience in Physics, focusing on General Physic, acting on the following subjects: non-linear dynamics, chaos, billiards, non-twist maps, synchronization, pulsating systems and classical transport. **Special Info** According to the reports of Professor Ricardo, he does not remember exactly how he met Professor Iberê, but knows that it was in a scientific events. They probably met at an event in Brasilia in 1989. In this event, there was a space for nonlinear dynamics in Hamiltonian systems and I had the opportunity to meet both Ibere and Ricardo Viana.
11:40 - 12:05	**José Danilo Szezech Jr.** Graduation, master's degree and doctorate in physics from the Federal University of Paraná master's degree in physics from the Federal University of Paraná. From 2008 to 2012, Professor José was a postdoctoral fellow at IFUSP, under the supervision of Professor Iberê. He is currently an adjunct professor at Ponta Grossa State University, is coordinator of Post-graduation Program in Science/Physics at UEPG, is member of 105 Group Science and maintains his collaborations with Professor Iberê. **Special Info** Professor José has met Professor Iberê over the years at scientific events and group events. They have had jobs together throughout their careers. Professor José has a lot of affection and admiration for Prof. Iberê and now he will talk about his works with him.

Session III	Chair: Arthur Lopes da Silva Valencio Chronos: Roberto Budzinski
Chair	Sou da segunda geração de aprendizes do Prof. Iberê Caldas, isto é, fui orientado pelo Prof. Murilo Baptista (Uni. of Aberdeen, Escócia), o qual, por sua vez, foi orientado pelo Prof. Iberê Caldas e continua mantendo até hoje intensa colaboração e amizade. Na longínqua Escócia, os trabalhos do Prof. Iberê, desde os clássicos até aqueles

	ainda em preparação com amigos ou membros do grupo, sempre encontravam espaço para as nossas discussões regulares no Institute of Complex Systems and Mathematical Biology. Foram momentos especiais, em que pude me debruçar sobre suas grandes contribuições para a abertura ou expansão de áreas diferentes do conhecimento, desde dinâmica de fluxos de plasma até novos comportamentos em redes de neurônios, passando por novos avanços teóricos em sistemas dinâmicos, fenômenos especiais em física de lasers, análise de dinâmica de mercado de ações e investigação de padrões na comunicação cortical humana. É um grande privilégio participar deste evento em homenagem ao pesquisador que, posso dizer, é a minha maior referência, assim como de tantos outros pesquisadores de todas as gerações, no Brasil e no mundo.
Chronos	Conheci o professor Iberê em 2017 no congresso sobre recurrence plots que aconteceu na USP. Nesta época, eu era aluno de mestrado e ele sempre muito gentil me convidou para almoçar com o pessoal. Em 2018, ele fez parte da minha banca de mestrado, onde fez importantes contribuições para minha dissertação. Além disso, desde de 2017, encontro o professor Iberê nas colobarações com o grupo de pesquisa do qual faço parte (UFPR) e nos eventos e congressos."
14:05 - 14:35	**Fabrice Doveil** Professor Fabrice DOVEIL is Directeur de recherche émérite CNRS, is parte of Equipe Turbulence Plasma, Laboratoire PIIM, UMR 7345 CNRS/AMU, Centre universitaire de St Jérôme, Marseille, France. He has strong colaboration with Professor Iberê. **Special Info** Professor Fabrice told us that the first met Prof. Iberê Caldas at a meeting my group was organizing every year in Marseille in the early 1990's about "Anomalous Transport and Chaos in Plasma Physics". He immediately enjoyed discussing with him about his pioneering work on different aspects of nonlinear behavior in plasmas. Since then they have developped a very strong collaboration between both our groups in Sao Paulo and Marseille, exchanging students and postdocs, and allowing permanent researchers to discover new aspects of their work in different environments. This fruitful collaboration also allowed Professor Fabrice and your wife to develop a very nice friendship with Professor Iberê and Professor Linda Caldas.
14:40 - 15:00	**Gisele Akemi Oda** Graduated in Physics at Universidade de São Paulo, Master and Ph. D in Physics from Universidade de São Paulo Post-doc at the Department of Biology in Universtiy of Virginia (1999-2000) and at the Department of Applied Physics at Universidade de São Paulo (2001-2006). Now she is professor at Departamento de Fisiologia, Instituto de Biociências, Universidade de São Paulo, and Investigador Correspondiente of CONICET (Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina) since 2014 **Special Info** Professor Gisele met prof. Iberê during her graduation. He taught fluid dynamics classes. After that he was her Master and Ph.D orientator, and Postdoctoral supervisor.

15:05 - 15:25	**Everton S. Medeiros** Dr. Medeiros received his PhD in sciences from the Institute of Physics of the University of São Paulo. Specialized in dynamical systems, Dr. Medeiros currently develops postdoctoral research investigating the sensitivity of natural systems to external factors. Dr. Medeiros devotes special attention to critical thresholds, tipping points, where such systems undergo drastic changes in their dynamical regime. **Special Info** Dr. Everton works with Professor Iberê since 2003, he is one of main colaborations conection of Professor Ulrike Feudel and the Control of Oscilation Group. Professor Iberê is Eventon's part of life, since the graduation is present in your way.

Session IV	Chair: Celso Abud Chronos: Paulo Protachevicz
Chair	Meu primeiro contato com o Professor Iberê foi justamente na minha defesa de dissertação de mestrado em fevereiro 2010. Aproveitamos para encaminhar minha orientação de doutorado, que culminou em uma parceria de respeito, trabalho e admiração mútua da qual tenho enorme gratidão, pois muito do profissional que sou hoje é reflexo dos ensinamentos e dos momentos que compartilhamos.
Chronos	
16:00 - 16:20	**Meirielen Caetano de Sousa** Graduated in Physics from Mackenzie Presbyterian University and PhD in Physics from University of São Paulo. During her Ph.D, she undertook a one-year research internship at the Ion and Molecular Interaction Physics Laboratory (PIIM Laboratory) at the University of Aix-Marseille, France and she is currently a postdoctoral fellow at the Institute of Physics of the University of São Paulo, in collaboration with the PIIM Laboratory of the University of Aix-Marseille. **Special Info** In 2009, Dr. Meirielen defended his monograph on "Hamiltonian Dynamics and Chaos" with applications in plasma accelerators. The defense of the monograph was necessary for the completion of the Bachelor of Physics, and Prof. Iberê Caldas was one of the members of the evaluation board. The following year, Dr. Meirielen joined the Graduate Program of the Institute of Physics of USP. The Prof. Iberê was Ph.D supervisor, and currently postdoctoral supervisor of Dr Meirielen.
16:25 - 16:55	**Marisa Roberto** She holds a degree in Physics from the Pontifical Catholic University of São Paulo, a master's degree in Space Engineering and Technology from the National Institute for Space Research and a doctorate in physics from the Technological Institute of Aeronautics. She has a postdoctoral degree from the University of California, Berkeley in the field of plasmas for technology applications and is an integral member of the Oscillations and Control Group at the USP Institute of Physics.

	Special Info Professor Marisa told us that her first contact with Professor Iberê was in 1986, when he attended her Master's degree. In 2000, she contacted him to start a collaboration in the area of chaos applied to the controlled fusion area, until today they maintain the collaborations.

Session V	**Chair: Ewandson Luiz Lameu** **Chronos: Fernando da Silva Borges**
chair	Ewandson
chronos	Brad
09:10 - 09:30	**Marcio Eisencraft** Holds a degree in Electrical Engineering from the Polytechnic School of the University of São Paulo (EPUSP) (1998), a master's degree in Electrical Engineering from EPUSP (2001) and a doctorate in Electrical Engineering from EPUSP (2006). He is currently an associate professor at EPUSP in the Department of Telecommunications and Control Engineering. **Special Info** Professor Marcio told us that Prof. Iberê participated in Professor Marcio's PhD and "livre-docente" evaluation, always giving relevant suggestions that directed your research and generated several fruits in the form of articles. In addition, through him (prof. Iberê), I met several other researchers in the area of dynamic systems with whom Professor Marcio start collaborations.
09:35 - 09:55	**Sérgio Roberto Lopes** He has a degree in Physics from Maringá State University (1990), a PhD in Space Science from the National Institute for Space Research (1995) with an internship at Cambridge University, England and a senior internship at Humboldt University, Berlin, Germany. He is currently a full professor at the Federal University of Paraná. Has experience in Physics, focusing on Space Plasma and nonlinear dynamics, acting on the following subjects: chaos and turbulence, coupled oscillators, and neural networks **Special Info** Professor Sergio told us that he met Prof. Iberê in 1991, at the first Brazilian congress of plasma physics that took place in December / 1991 in Santos, SP. At the time he was a master student and was making his first congress presentation. Professor Iberê participated in Professor Sergio's PhD in 1995, during the almost 10 hours of argumentation of both stalls (qualification and defense), Professor Sergio managed to have a little dialogue with Iberê, were unforgettable moments of relaxation and joy. After that, there were many other encounters over these 24 years of careers.
10:00 - 10:20	**Rene O. Medrano Torrico**

	Bachelor of Physics with basic research qualification (1998) and Doctor of Science in Physics (2004) from the Institute of Physics of USP. Postdoctoral fellow at USP Institute of Physics (2004-2010), Mediterranean Institute of Advanced Studies in Spain (2007) and Imperial College London (2015-2016). He is currently an adjunct professor at the Federal University of São Paulo, campus Diadema. Develops research in nonlinear dynamical systems with emphasis on network synchronization, homoclinic chaos, bifurcation theory, excitable behaviors and electronic circuits. **Special Info** Prof. Rene told us about One of the most important works the your carrear he has developed under Prof. Iberê supervision stayed incredibly hidden from the audience in congress and talks. We have shown that the existence of a homoclinic orbit implies in the existence of a well-organized scenery of infinite homoclinic orbits. There will not be a better opportunity to correct this fault on this occasion.

Session VI	Chair: Thiago de Lima Prado Chronos: José Trobria
chair	
chronos	
10:50 - 11:10	**Hilda Cerdeira** He holds a degree in Physical Sciences from the University of Buenos Aires (1966) and a doctorate in physics (Ph.D.) from Brown University (1971). He has a postdoctoral degree in Germany, worked at the State University of Campinas and the Abdus Salam International Center for Theoretical Physics. She is currently retired and acts as a volunteer professor at the Institute of Theoretical Physics of the Universidade Estadual Paulista. **Special Info** Professor Hilda spent time at USP, in Prof Salinas' group around 2006, when she met Professor Iberê.
11:15 - 11:45	**Elbert Einstein Nehr Macau** Graduate at Engenharia Eletrônica from Instituto Tecnológico de Aeronáutica (1984), master's at Electric Engineering from Instituto Tecnológico de Aeronáutica (1989) and ph.d. at Electric Engineering from Instituto Tecnológico de Aeronáutica (1993). Has experience in Electric Engineering, focusing on Control of Electronic Processes, Feedback, acting on the following subjects: caos, dinamica nao linear, controle, chaos and sincronização.
11:50 - 12:10	**Silvio Luiz Thomaz de Souza** Silvio L.T. de Souza holds a bachelor's degree in Physics from the Paulista State University Júlio de Mesquita Filho (1995), PhD in Physics [Thesis] from the University of São Paulo (2002) and

	post-doctorate in the Oscillation Control Group, Institute of Physics-USP and at the Center for Applied Dynamics Research, School of Engineering, University of Aberdeen, King's College (Scotland). He is currently Associate Professor at the Federal University of São João del-Rei. Has experience in research in Nonlinear Dynamics, acting on the following subjects: Fractals, Chaotic Oscillations and Applications of Dynamic Systems Theory in the areas of biophysics and engineering

Session VII	Chair: Edson Denis Leonel Chronos: Kelly Cristiane Iarosz
14:00 - 14:30	**Zwinglio Guimarães-Filho** Graduated in Physics (1995), with Master (1998) and PhD (2004) in Physics from the University of São Paulo and postdoctoral studies at the University of Aix-Marseille (2009-2012) and University of São Paulo (2006-2009 and 2012 -2013). He is currently a professor at the Department of Applied Physics at the Institute of Physics at the University of São Paulo. Has experience in Physics, focusing on Plasma Physics and Electrical Discharges, acting mainly in the study of instabilities in magnetically confined plasmas (turbulence, MHD instabilities and energetic particles driven modes).
14:35 - 15:05	**Lia Queiroz do Amaral** graduate at Faculdade de Filosofia Ciências e Letras from Universidade de São Paulo (1962), master's at Escola Politecnica from Universidade de São Paulo (1969) and ph.d. at Physic from Universidade de São Paulo (1972). Full Professor of Physics in 1991. Has experience in Physic, focusing on Physics Of The Condensed State, acting on the following subjects: liquid crystals, soft matter, micelles, vesicles. Furthermore, makes research in human physical evolution, with published papers also in this area.
15:10 - 15:40	**José Carlos Sartorelli** holds a bachelor's degree in physics from the University of São Paulo (1973), a master's degree in physics from the University of São Paulo (1977) and a doctorate in physics from the University of São Paulo (1982), post-doctorate from the University of California-Santa Barbara, USA. He is currently a full professor at the University of São Paulo, Reviewer of the journals: Brazilian Journal of Physics Education, - Physical Review Letters (0031-9007), - Physics Letters A (0375-9601), - Chemical Engineering Science (0009-2509) Physical Review E (1539-3755), Nature Physics and Journal of Physics A. Mathematical and General (0305-4470). Ad-hoc advisor of FAPESP, CNPq and Araucária Foundation-PR. Has experience in experimental physics, with an emphasis on chaotic systems.
15:40 – 16:10	**Iberê L. Caldas** O homenageado

Details will be on the webpage:
http://105gsbr.wixsite.com/poc2019

Email information:
controleoscilacoes@gmail.com