



XVI ENFIR ORAL TECHNICAL SESSIONS

September 28, Monday

ROOM ALVORADA 1

Nuclear Reactor Physics I (Professor Fernando da Veiga Watson – in memorium)		
Time	Title	Authors
2:30 - 2:50	AN ITERATIVE METHOD FOR EVALUATION OF FLUX DISTRIBUTION IN 1D AND 2D GEOMETRIES USING SUPERPOSITION OF CONTRIBUTIONS FROM SOURCES AND SINKS (ID: 1042)	RAJENDRA - NARAIN
2:50 - 3:10	MEASUREMENTS OF THE ISOTHERMAL, POWER AND TEMPERATURE REACTIVITY COEFFICIENTS OF THE IPR-R1 TRIGA REACTOR (ID: 204)	ROSE MARY G. P. SOUZA; AMIR ZACARIAS MESQUITA; FRANCISCO BRAZ; PAULO HENRIQUE
3:10 - 3:30	ANALYTICAL CALCULATION OF THE AVERAGE CROSS SECTIONS FOR ABSORPTION AND SCATTERING USING FOURIER SERIES (ID: 133)	DANIEL A. P. PALMA; ALESSANDRO CRUZ GONÇALVES; AQUILINO SENRA MARTINEZ; FERNANDO CARVALHO DA SILVA
3:30 – 3:50	COLD NEUTRON IRRADIATION FACILITY FOR THE BRAZILIAN RESEARCH REACTORS AND ACCELERATORS (ID: 1084)	DANTE L. VOI; DANIEL TING; FRANCISCO J.O. FERREIRA; LUIZ H. CLARO; WILSON J. VIEIRA
3:50 – 4:10	FAST THREE-DIMENSIONAL CORE OPTIMIZATION BASED ON MODIFIED ONE-GROUP MODEL. (ID: 679)	FERNANDO S. FREIRE; AQUILINO S. MARTINEZ; FERNANDO C. SILVA
4:10 – 4:30	A MULTIGROUP ANALYSIS FROM A CONTINUOUS ENERGY SPECTRUM APPROACH BY A MC METHOD (ID: 305)	DAYANA Q. CAMARGO; BARDO E. J BODMANN; MARCO T. M. B. VILHENA; SERGIO Q. B. LEITE
4:30 – 4:50	Coffee Break	
Nuclear Reactor Physics II		
Time	Title	Authors
4:50 - 5:10	AN ANALYTICAL DISCRETE-ORDINATES SOLUTION FOR TWO-DIMENSIONAL PROBLEMS BASED ON NODAL SCHEMES (ID: 560)	LILIANE B. BARICHELLO; LUCIANA C. CABRERA; JOÃO FRANCISCO PROLO FILHO

5:10 - 5:30	AN ESTIMATE FOR THE RADIAL BUCKLING IN ANALYSIS OF NEUTRON DIFFUSION IN A THIN CYLINDRICAL ANNULAR RING (ID: 546)	RAJENDRA NARAIN
5:30 - 5:50	COMPOSITE SPATIAL GRID SPECTRAL NODAL METHOD FOR ONE-SPEED X,Y - GEOMETRY DIFFUSION EIGENVALUE PROBLEMS IN HOMOGENEOUS DOMAINS (ID: 170)	DANY SANCHEZ DOMINGUEZ; ESBEL T. V. ORELLANA; RICARDO C. DE BARROS
5:50 - 6:10	CONVERGENCE ANALYSIS OF THE REBALANCE METHODS IN MULTIPLYING FINITE SLAB HAVING PERIODIC BOUNDARY CONDITIONS (ID: 750)	SER GI HONG; YOUNG OUK LEE; JAE SEUNG SONG
6:10 - 6:30	AN ALTERNATIVE TECHNIQUE FOR THE IMPLEMENTATION OF AN ANALYTICAL APPROXIMATION FOR TRANSIENTS WITH TEMPERATURE FEEDBACK (ID: 132)	DANIEL A. P. PALMA; ADILSON COSTA DA SILVA; ALESSANDRO CRUZ GONÇALVES; AQUILINO SENRA MARTINEZ

September 28, Monday

ROOM ITAMARATY

Thermal Hydraulics I (Professor David Adjuto Botelho – in memorium)		
Time	Title	Authors
2:30 - 2:50	CAPACITANCE SENSOR FOR VOID FRACTION MEASUREMENT IN A NATURAL CIRCULATION REFRIGERATION CIRCUIT (ID: 271)	MARCELO S. ROCHA; EDUARDO L. L. CABRAL; JOSÉ ROBERTO SIMÕES-MOREIRA
2:50 - 3:10	COMPARISON BETWEEN EXPERIMENTAL DATA AND NUMERICAL MODELING FOR THE NATURAL CIRCULATION PHENOMENON (ID: 816)	GAIANÊ SABUNDJIAN; DELVONEI ALVES ANDRADE; PEDRO ERNESTO UMBEHAUN; WALMIR MÁXIMO TORRES; LUIZ ALBERTO MACEDO; THADEU NEVES CONTI; EDUARDO MADEIRA BORGES; MAURO FERREIRA SILVA; GABRIEL ROLIN MELO; ROBERTO NAVARRO MESQUITA; ROSANI LAPA PENHA
3:10 - 3:30	FEASIBILITY OF USING PYREX DISCRETE BURNABLE ABSORBER IN HIGH PERFORMANCE NUCLEAR FUEL ASSEMBLIES (ID: 188)	FRANKLIN L PALHEIROS; SYDNEY DA SILVA GOMES
3:30 – 3:50	HIGH SPEED ULTRASONIC SYSTEM TO MEASURE BUBBLES VELOCITIES IN A HORIZONTAL TWO-PHASE FLOW (ID: 508)	JURANDYR S CUNHA FILHO; MARCOS SANTANA FARIAS; JOSÉ LUIS H. FACCINI; CARLOS ALFREDO LAMY; JIAN SU
4:10 – 4:30	EXPERIMENTS ON ONE-PHASE THERMALLY STRATIFIED FLOWS IN NUCLEAR REACTOR PIPE LINES (ID: 269)	HUGO C. REZENDE; MOYSÉS A. NAVARRO; ELIZABETE JORDÃO; ANDRÉ A. C. DOS SANTOS
4:10 – 4:30	METHODOLOGY FOR STUDIES OF NATURAL CIRCULATION IN CLOSED CIRCUITS (ID: 248)	RAFAEL O. P. ARAUJO; MARIA DE LOURDES MOREIRA
4:30 – 4:50	Coffee Break	
Thermal Hydraulics II		
Time	Title	Authors
4:50 - 5:10	THERMODYNAMIC PROPERTIES OF WATER IN THE CRITICAL REGION (ID: 345)	MARCELO ANTÔNIO VELOSO; SEBASTIÃO
5:10 - 5:30	IMPROVING MODPRESS HEAT LOSS CALCULATIONS FOR PWR PRESSURIZERS (ID: 235)	NATÁLIA VAZ RAMOS; CARLOS A BRAYNER O. LIRA; FERNANDO ROBERTO ANDRADE LIMA; LÁZARA SILVEIRA CASTRILLO; ÉGONN H. C.

Deterministic Reactor Safety Analysis

Time	Title	Authors
5:30 - 5:50	NUMERICAL EVALUATION OF THERMAL STRATIFICATION IN HORIZONTAL PIPES (ID: 558)	MOYSÉS A. NAVARRO; HUGO C. REZENDE; ANDRÉ A. C. SANTOS; FERNANDA P. GUIMARÃES
5:50 - 6:10	PREDICTION OF THE DYNAMICAL THERMAL BEHAVIOR OF A PARTICULATE SPHERICAL FUEL ELEMENT USING LUMPED AND DISTRIBUTED PARAMETER MODELS (ID: 1208)	CARLOS VIDAL PESSÔA; SU JIAN; CLAUDIO L. DE OLIVEIRA
6:10 - 6:30	THERMAL HYDRAULIC PHENOMENOLOGY FOR THE HEATING PROCESS IN A NATURAL CIRCULATION FACILITY (ID: 966)	WALMIR M. TORRES; LUIZ A. MACEDO; ROBERTO N. MESQUITA; PAULO H. F. MASOTTI; ROSANI M. P. LIBARDI; GAIANÊ SABUNDJIAN; PEDRO E. UMBEHAUN; THADEU N. CONTI; MAURO F. S. FILHO; GABRIEL R. MELO

September 28, Monday

ROOM ALVORADA 2

Structural Mechanics I		
Time	Title	Authors
2:30 - 2:50	AN APPROACH FOR THE DESIGN OF CLOSURE BOLTS OF SPENT FUEL ELEMENTS TRANSPORTATION PACKAGES (ID: 241)	MIGUEL MATTAR NETO; CARLOS ALEXANDRE J MIRANDA; GERSON FAINER
2:50 - 3:10	PARTICLES GEOMETRY INFLUENCE IN THE THERMAL STRESS LEVEL IN AN SIC REINFORCED ALUMINUM MATRIX COMPOSITE CONSIDERING THE MATERIAL NON-LINEAR BEHAVIOR (ID: 325)	CARLOS A. J. MIRANDA; ROSANI M. P. LIBARDI; ZOROASTRO M. BOARI
3:10 - 3:30	PRELIMINARY STUDY FOR EXTENSION AND IMPROVEMENT ON MODELING OF PRIMARY WATER STRESS CORROSION CRACKING AT CONTROL ROD DRIVE MECHANISM NOZZLES OF PRESSURIZED WATER REACTORS (ID: 71)	OMAR F. ALY; MIGUEL MATTAR NETO; MÔNICA M. M. A. M. SCHVARTZMAN
3:30 – 3:50	STRUCTURAL INTEGRITY AND LEAKAGE ASSESSMENT OF ANGRA 1 NPP STEAM GENERATOR USING STATISTIC METHODS (ID: 326)	CARLOS A. J. MIRANDA; EDUARDO A. MANESCHY; PAULO R. B. RODRIGUES
3:50 – 4:10	THE INFLUENCE OF LIMITED KINEMATIC HARDENING IN SHAKEDOWN ANALYSIS (ID: 194)	DOMINGOS E.S. NERY; NÉSTOR A. ZOUAIN; REINALDO R. JOSPIN
4:10 – 4:30	TRANSIENT THERMAL ANALYSIS OF A 1:2 SCALE CASK FOR RESEARCH REACTORS NUCLEAR SPENT FUEL ELEMENTS CONSIDERING THERMAL CONTACTS AND IRRADIATION (ID: 327)	CARLOS A. J. MIRANDA; GERSON FAINER; MIGUEL MATTAR NETO
4:30 – 4:50	Coffee Break	
Structural Mechanics II		
Time	Title	Authors
4:50 - 5:10	COMPARATION OF MCNPX AND ALBEDO METHOD IN CRITICALITY CALCULATION (ID: 1080)	VICTOR L LASSANCE CUNHA; WILSON FREITAS REBELLO; RONALDO GLICÉRIO CABRAL; ADEMIR XAVIER DA SILVA; FERNANDO DA SILVA MELO

Nuclear Reactor Instrumentation and Control		
Time	Title	Authors
5:10 - 5:30	MODERNIZATION OF THE CDTN IPR-R1 TRIGA REACTOR INSTRUMENTATION AND CONTROL (ID: 125)	AMIR Z MESQUITA; ANTÔNIO CARLOS L. COSTA; ROSE MARY G.P. SOUZA
5:30 - 5:50	SUPERVISORY SYSTEM TO MONITOR THE NEUTRON FLUX OF THE IPR-R1 TRIGA RESEARCH REACTOR AT CDTN (ID: 259)	ANTONIO J. PINTO; AMIR Z. MESQUITA; CLÉDOLA C. O. TELLO
Nuclear Reactor Materials		
Time	Title	Authors
5:50 - 6:10	MEASUREMENT OF URANIUM DIOXIDE THERMOPHYSICAL PROPERTIES BY THE LASER FLASH METHOD (ID: 121)	PABLO ANDRADE GROSSI; RICARDO ALBERTO N. FERREIRA; DENISE DAS MERCÊS CAMARANO; ROBERTO MÁRCIO DE ANDRADE
6:10 - 6:30	PHYSICAL CHARACTERIZATION OF THE AUSTENITIC STAINLESS STEELS AISI 304 AND 348 L* (ID: 982)	CELSO A. TEODORO; JOSÉ E. R. SILVA

September 29, Tuesday

ROOM ALVORADA 1

Nuclear Reactor Physics III		
Time	Title	Authors
2:30 - 2:50	ISOTOPE DECAY PROBLEM SOVED BY MEANS OF A RECURSIVE METHOD (ID: 398)	CARLOS R GRANT
2:50 - 3:10	REACTIVITY BALANCE IN THE IPR-R1 TRIGA REACTOR (ID: 182)	ROSE MARY G. P. SOUZA; AMIR ZACARIAS MESQUITA
3:10 - 3:30	NEUTRONIC, THERMAL-HYDRAULIC AND ACCIDENT ANALYSIS CALCULATIONS FOR AN IRRADIATION DEVICE TO BE USED IN THE QUALIFICATION PROCESS OF DISPERSION FUELS IN THE IEA-R1 RESEARCH REACTOR (ID: 90)	DOUGLAS B. D. DOMINGOS; ANTONIO TEIXEIRA SILVA; PEDRO ERNESTO UMBEHAUN; MITSUO YAMAGUCHI; THADEU NEVES CONTI; JOSÉ EDUARDO ROSA; JEREZ
3:30 – 3:50	ON THE USE OF THE CONTINUOUS-ENERGY MONTE CARLO METHOD FOR LATTICE PHYSICS APPLICATIONS (ID: 518)	JAAKKO LEPPANEN
3:50 – 4:10	STUDY OF THE KINETIC PARAMETERS FOR SUBCRITICAL MEDIA DRIVEN BY SOURCE (ID: 375)	SEUNG MIN LEE; JOSÉ RUBENS MAIORINO
4:10 – 4:30	SPECTRAL NODAL METHOD WITH HYBRID ANGULAR QUADRATURE AND ANALITICAL RECONSTRUCTION FOR ONE-SPEED TRANSPORT PROBLEM IN DISCRETE ORDINATES AND SLAB GEOMETRY (ID: 835)	JOSÉ HUMBERTO ZANI; RICARDO C. BARROS
4:30 – 4:50	Coffee Break	
Long-lived Radioactive Waste Management		
Time	Title	Authors
5:10 - 5:30	A HYBRID METHOD FOR THE SIMULATION OF RADIONUCLIDE CONTAMINANT PLUMES IN HETEROGENEOUS UNSATURATED FORMATIONS (ID: 617)	J. AQUINO; ALEXANDRE SANTOS FRANCISCO; T. J. PEREIRA; H. P. AMARAL SOUTO
5:30 - 5:50	IEA-R1 RESEARCH REACTOR: OPERATIONAL LIFE EXTENSION AND CONSIDERATIONS REGARDING FUTURE DECOMMISSIONING (ID: 192)	ROBERTO FRAJNDLICH

Man Machine Interface

Time	Title	Authors
5:50 - 6:10	A REVIEW OF THE MODELS FOR EVALUATING ORGANIZATIONAL FACTORS IN HUMAN RELIABILITY ANALYSIS (ID: 152)	MARCO ANTONIO BAYOUT ALVARENGA; RENATO ALVES DA FONSECA; PAULO FERNANDO FERREIRA FRUTUOSO E MELO
6:10 – 6:30	COMPARISON OF THE THERP QUANTITATIVE TABLES WITH THE HUMAN RELIABILITY ANALYSIS TECHNIQUES OF SECOND GENERATION (ID: 153)	MARCO ANTONIO BAYOUT ALVARENGA; RENATO ALVES DA FONSECA

September 29, Tuesday

ROOM ITAMARATY

Deterministic Reactor Safety Analysis		
Time	Title	Authors
2:30 - 2:50	THERMAL POWER CALIBRATIONS OF THE IPR-R1 TRIGA REACTOR BY THE CALORIMETRIC AND THE HEAT BALANCE METHODS (ID: 119)	AMIR Z MESQUITA; HUGO C. REZENDE; ROSE MARY G.P SOUZA; RITA DE CÁSSIA OLIVEIRA
2:50 - 3:10	SIMULATION WITH RELAP5/MOD3.3 OF A POSTULATED 10% HOT LEG BREAK IN ANGRA 2 NUCLEAR POWER PLANT (ID: 493)	CARLOS V. G. AZEVEDO; ELCIO T. PALMIERI; IVAN D. ARONNE
3:10 – 3:30	CALCULATION WITH RELAP5/MOD3.3 OF THE EXPERIMENT SB-HL-02 CONDUCTED AT THE ROSA-IV/LSTF FACILITY (ID: 492)	ELCIO T. PALMIERI; CARLOS V. G. DE AZEVEDO; IVAN D. ARONNE
Probabilistic Reactor Safety Analysis		
Time	Title	Authors
3:30 - 3:50	A HUMAN ERROR PROBABILITY ESTIMATE METHODOLOGY BASED ON FUZZY INFERENCE AND EXPERT JUDGMENT ON NUCLEAR PLANTS (ID: 795)	CLAUDIO SOUZA NASCIMENTO; ROBERTO NAVARRO MESQUITA; ROBERTO NAVARRO MESQUITA
3:50 - 4:10	APPLICATION OF THE FAILURE MODES AND EFFECTS ANALYSIS (FMEA) TO THE EMERGENCY COOLING SYSTEM OF AN EXPERIMENTAL NUCLEAR POWER PLANT (ID: 89)	OSMAR CONCEIÇÃO JUNIOR; ANTONIO T. SILVA
4:10 - 4:30	THE ANGRA 1 FIRE PRA PROJECT (ID: 485)	LUIZ EURIPEDES M. C. SILVA; FRANCISCO J. JOGLAR; ROBERT KASSAWARA
4:30 – 4:50	Coffee Break	
Nuclear Power Plant Viability, Design, Construction and Operation		
Time	Title	Authors
4:50 - 5:10	A METHODOLOGICAL FRAMEWORK APPLIED TO THE CHOICE OF THE BEST METHOD IN REPLACEMENT OF NUCLEAR SYSTEMS (ID: 678)	ALFREDO M. VIANNA FILHO

5:10 - 5:30	DIAGNOSTIC OF CORROSION DEFECTS IN STEAM GENERATOR TUBES USING ADVANCED SIGNAL PROCESSING FROM EDDY-CURRENT TESTING (ID: 967)	ANDRÉ LUIZ FORMIGONI; LUIZ A. N. M. LOPEZ; DANIEL K. S. TING
5:30 - 5:50	VERIFICATION OF THE BEHAVIOR OF INSULATING MATERIALS UNDER IONIZING RADIATION (ID: 782)	SILVIO CARLOS MENZEL

System and Equipment Design

Time	Title	Authors
5:50 - 6:10	FUEL MINIPLATE THICKNESS MEASUREMENT SYSTEM FOR DISPERSION FUEL SWELLING EVALUATION (ID: 92)	JOSÉ EDUARDO SILVA; DOUGLAS B. D. DOMINGOS; ANTONIO TEIXEIRA SILVA
6:10 - 6:30	TECHNOLOGICAL DEVELOPMENT OF AN INNOVATIVE DEVICE TO BE APPLIED IN IRRADIATION CIRCUITS (ID: 454)	ANTÔNIO C. L. COSTA; EDUARDO T. S. SARAIVA; SÉRGIO C. ALBINO; VAGNER A. DE OLIVEIRA; VALDIR M. DE LIMA; VANDERLEY DE VASCONCELOS

September 29, Tuesday

ROOM ALVORADA 2

Advanced Nuclear Reactors I		
Time	Title	Authors
2:30 – 2:50	TECHNOLOGICAL FORECASTING A LONG TIME OF THE SCIENTIFIC-TECHNOLOGICAL DEVELOPMENT OF THE NUCLEAR FUSION (ID: 159)	PLINIO GUSTAVO SCHETTERT; WAGNER DOS SANTOS OLIVEIRA; AFONSO RODRIGUES AQUINO
2:50 - 3:10	ASSESSMENT OF TWO SMALL-SIZED INNOVATIVE NUCLEAR REACTORS FOR ELECTRICITY GENERATION IN BRAZIL USING INPRO METHODOLOGY (ID: 293)	ORLANDO J. A. GONÇALVES FILHO; FARHANG SEFIDVASH
3:10 - 3:30	DETERMINATION OF A TEST SECTION PARAMETERS FOR IRIS NUCLEAR REACTOR PRESSURIZER (ID: 55)	MÁRIO A B SILVA; CARLOS A B O LIRA; ANTONIO C O BARROSO
3:30 – 3:50	ECONOMIC ASSESSMENT OF THE IRIS REACTOR FOR DEPLOYMENT IN BRAZIL USING INPRO METHODOLOGY (ID: 296)	ORLANDO J. A. GONÇALVES FILHO
3:50 – 4:10	PERFORMANCE OF A TRANSMUTATION ADVANCED DEVICE FOR SUSTAINABLE ENERGY APPLICATION. (ID: 49)	CARLOS RAFAEL G. HERNANDEZ; ANGEL PEREZ-NAVA GOMEZ; ALBERTO ESCRIVÁ CASTELLS; LAURA GARCÍA FAJARDO; JESUS ROSALES GARCÍA; ALBERTO ABADANES
4:10 – 4:30	POWER CONVERSION FOR A MICRORREACTOR: A NUCLEAR SPACE APPLICATION (ID: 593)	LAMARTINE N. F. GUIMARÃES; GIANNINO PONCHIO CAMILLO; GUILHERME MOREIRA PLACCO; JAMIL ALVES NASCIMENTO; EDUARDO MADEIRA BORGES
4:30 – 4:50	Coffee Break	
Advanced Nuclear Reactors II		
Time	Title	Authors
4:50 - 5:10	STARTUP TRANSIENTS IN ACCELERATOR DRIVEN SYSTEMS USING CINESP-ADS CODE (ID: 277)	RUBENS S. SANTOS
Nuclear Reactor Fuel Fabrication and Design I		
Time	Title	Authors
5:10 - 5:30	NONDESTRUCTIVE EVALUATION OF PLATE TYPE NUCLEAR FUEL ELEMENTS DURING MANUFACTURING STAGE USING ULTRASONIC TEST METHOD (ID: 638)	SILVERIO F SILVA JUNIOR; MUCIO JOSE DRUMOND BRITO; WILMAR BARBOSA FERRAZ; DONIZETE ANDERSON ALENCAR

5:30 - 5:50	WELD RESIDUAL STRESS PREDICTIONS IN REACTOR VESSEL HEAD PENETRATIONS (ID: 754)	RODOLFO L.M. SUANNO; ANNE TEUGHELS; LUCIO D B. FERRARI; CHRISTIAN MALEKIAN
5:50 - 6:10	THE UPDATE OF COMPETENCE AND INFRASTRUCTURE TO THE NEAR FUTURE (ID: 171)	MARCIO SOARES DIAS; JOÃO ROBERTO LOUREIRO DE MATTOS
Radiation Shielding		
Time	Title	Authors
6:10 - 6:30	THE PREPARATION OF POLYETHYLENE AND MINERAL MATERIAL COMPOSITES, AND EXPERIMENTAL AND THEORETICAL (USING MCNP CODE) VERIFICATION OF THEIR CHARACTERISTICS FOR NEUTRON BEAM ATTENUATION (ID: 103)	MAJID ZAREZADEH; JAVAD RAHIGHI; DJAFAR GHYSARI; HOSSIEN GODS

October 1, Thursday
ROOM ALVORADA 1

Applied Mathematics and Computation I		
Time	Title	Authors
2:30 - 2:50	A SPECTRAL APPROACH TO COMPUTE RAREFIED GAS FLOWS IN CYLINDRICAL GEOMETRY (ID: 329)	CARMO HENRIQUE KAMPHORST; PATRICIA RODRIGUES; LILIANE BASSO BARICHELLO
2:50 - 3:10	AN ANALYTICAL SOLUTION FOR THE MONOENERGETIC, , DIFFUSION EQUATION IN A MULTILAYERED SLAB:, , DETERMINATION OF ALBEDO BOUNDARY CONDITION (ID: 164)	GRACIETE G.S. SAITO; MARCO TULLIO M.B VILHENA; RICARDO CARVALHO BARROS; CLAUDIO ZEN PETERSEN
3:10 – 3:30	AN ANALYTICAL SOLUTION OF THE ONE-DIMENSIONAL NEUTRON DIFFUSION KINETIC EQUATION IN CARTESIAN GEOMETRY (ID: 91)	CELINA CEOLIN; MARCO T. M. B. VILHENA; SERGIO DE Q. B. LEITE; CLAUDIO ZEN PETERSEN
3:30 – 3:50	AN ANALYTICAL SOLUTION OF THE POINT KINETICS EQUATIONS WITH TIME VARIABLE REACTIVITY BY THE DECOMPOSITION METHOD (ID: 43)	CLAUDIO ZEN PETERSEN; MARCO TÚLLIO VILHENA; SANDRA DULLA; PIERO RAVETTO
3:50 – 4:10	AN ANALYTICAL SPATIAL RECONSTRUCTION ALGORITHM FOR THE SD-SGF-CN HYBRID NODAL METHOD FOR ONE-SPEED X,Y-GEOMETRY SN EIGENVALUE PROBLEMS (ID: 747)	WELTON A. MENEZES; HERMES A. FILHO; RICARDO C. BARROS
4:10 – 4:30	AN OVERVIEW OF THE BOLTZMANN TRANSPORT EQUATION SOLUTION FOR NEUTRONS, PHOTONS AND ELECTRONS IN CARTESIAN GEOMETRY (ID: 414)	BÁRBARA D. A. RODRIGUEZ; MARCO TÚLLIO VILHENA
4:30 – 4:50	Coffee Break	
Applied Mathematics and Computation II		
Time	Title	Authors
4:50 - 5:10	DISPERSION MODELING OF ATMOSPHERIC CONTAMINANTS IN THE ANGRA NUCLEAR POWER PLANT USING LES AND A NEW MODEL FOR THE CBL GROWTH (ID: 748)	DAVIDSON MARTINS MOREIRA; ANTÔNIO GLEDSON GOULART; PEDRO SOARES; MARCO TÚLLIO VILHENA
5:10 - 5:30	EXISTENCE THEORY FOR A ONE-DIMENSIONAL PROBLEM ARISING FROM THE BOUNDARY LAYER ANALYSIS OF RADIATIVE FLOWS (ID: 148)	FABIO S. AZEVEDO; MARK THOMPSON; MARCO T. VILHENA

5:30 - 5:50	LOW ORDER POLYNOMIAL EXPANSION NODAL METHOD FOR A DEPART AXIAL SOLUTION (ID: 861)	JIN-YOUNG CHO; JAE-SEUNG SONG; HYUN-CHUL LEE
5:50 - 6:10	PUFF MODELS FOR SIMULATION OF FUGITIVE RADIOACTIVE EMISSIONS IN ATMOSPHERE (ID: 51)	CAMILA P. COSTA; LEDINA L. PEREIRA; MARCO T. M. VILHENA; TIZIANO TIRABASSI
6:10 - 6:30	SEMI ANALYTICAL SOLUTION OF POINT KINETIC EQUATION WITH SOURCE FROM COLD START UP TO DELAYED CRITICAL (ID: 239)	THANGAVEL SATHIYASHEELA

October 1, Thursday

ROOM ITAMARATY

Artificial Intelligence		
Time	Title	Authors
2:30 - 2:50	ARTIFICIAL NEURAL NETWORK AND NEUTRON APPLICATION IN A VOLUME FRACTION CALCULATION IN ANNULAR AND STRATIFIED MULTIPHASE SYSTEM (ID: 720)	ROBSON RAMOS; LUIS EDUARDO BRANDÃO; ROBERTO SCHIRRU; CLÁUDIO MARCIO PEREIRA; ADEMIR XAVIER SILVA
2:50 - 3:10	FLOW REGIME IDENTIFICATION METHODOLOGY WITH MCNP-X CODE AND ARTIFICIAL NEURAL NETWORK (ID: 646)	CÉSAR M. SALGADO; ROBERTO SCHIRRU; LUIS EDUARDO BARREIRA BRANDÃO; CLÁUDIO MÁRCIO N. A. PEREIRA
3:10 – 3:30	MAN SYSTEM INTERFACE BASED ON AUTOMATIC SPEECH RECOGNITION: INTEGRATION TO A VIRTUAL CONTROL DESK (ID: 365)	CARLOS A. F. JORGE; DIOGO V. NOMIYA; ANTÔNIO C. A. MÓL; MAURÍCIO A. C. AGHINA; CLÁUDIO M. N. A. PEREIRA
3:30 – 3:50	ON THE PERFORMANCE OF AN ARTIFICIAL BEE COLONY OPTIMIZATION ALGORITHM APPLIED TO THE ACCIDENT DIAGNOSIS OF A PWR NUCLEAR POWER PLANT (ID: 552)	IONÁ MAGHALI SANTOS DE OLIVEIRA; ROBERTO SCHIRRU ROBERTO SCHIRRU; JOSE A. C. C. DE MEDEIROS JOSE A. C. DE MEDEIROS
3:50 – 4:10	PARTICLE SWARM OPTIMIZATION APPLIED TO DATA RECONCILIATION IN NUCLEAR POWER PLANT (ID: 587)	EDUARDO D. VALDETARO; ROBERTO SCHIRRU
4:10 – 4:30	USE OF EXPERIMENTAL DATA FOR THE DEVELOPMENT OF THE SOFTWARE FOR IDENTIFICATION AND CLASSIFICATION OF TRANSIENTS (SICT) (ID: 584)	IVAN D ARONNE; BENEDITO D. BAPTISTA FILHO; CARLOS V. G. AZEVEDO; ÉLCIO T. PALMIERI; MOYSÉS A. NAVARRO; ANTONIO C. O. BARROSO
4:30 – 4:50	Coffee Break	
Nuclear Reactor Licensing and Regulation		
Time	Title	Authors
4:50 - 5:10	GENERAL ASPECTS TO BE CONSIDERED IN A RESEARCH REACTOR DECOMMISSIONING PLAN (ID: 185)	PABLO ANDRADE GROSSI; CLÉDOLA C. O TELLO
5:10 - 5:30	ON THE CLASSIFICATION OF STRUCTURES, SYSTEMS AND COMPONENTS OF NUCLEAR RESEARCH AND TEST REACTORS (ID: 240)	MIGUEL MATTAR NETO

5:30 - 5:50	SAFETY INDICATORS AS A TOOL FOR OPERATIONAL SAFETY EVALUATION OF NUCLEAR POWER PLANTS (ID: 1102)	JEFFERSON B. ARAUJO; PAULO FERNANDO F. F. MELO; ROBERTO SCHIRRU
5:50 - 6:10	THE IMPACT OF SAFETY STANDARDS UPDATING FOR DESIGN PURPOSES IN NUCLEAR POWER PLANTS LICENSING (ID: 154)	MARCO ANTONIO BAYOUT ALVARENGA; SIDNEY LUIZ RABELLO
Fuel Cycle Management and Services		
Time	Title	Authors
6:10 - 6:30	PROPOSAL OF A DRY STORAGE INSTALLATION IN ANGRA NPP FOR SPENT NUCLEAR FUEL (ID: 433)	LUIZ S. ROMANATO; BARBARA M. RZYSKI

October 1, Thursday

ROOM ALVORADA 2

Nuclear Reactor Fuel Fabrication and Design II		
Time	Title	Authors
2:30 - 2:50	ANALYSIS OF CERAMIC PELLETS USING ULTRASOUND: TIME OF FLIGHT AND FREQUENCY ESPECTRUM WITH ARTIFICIAL NEURAL NETWORK (ID: 448)	DOUGLAS B BARONI; MARCELO S. Q. BITTENCOURT; CLÁUDIO M. N. A. PEREIRA
2:50 - 3:10	COMPACTATION PRESSURE INFLUENCE ON THE TERMOPHYSICAL PROPERTIES OF URANIUM DIOXIDE PELLETS PRODUCED WITH KERNELS (ID: 689)	RICARDO A. N. FERREIRA; ANTÔNIO S. ANDRADE; ODAIR MIRANDA; PABLO A. GROSSI; DENISE M. CAMARANO; FABRÍCIO L. MIGLIORINI; ROBERTO M. ANDRADE
3:10 – 3:30	COMPARATIVE STUDY OF THE DIFFERENT INDUSTRIAL MANUFACTURING ROUTES FOR UO ₂ PELLET SPECIFICATIONS THROUGH THE WET PROCESS (ID: 189)	FRANKLIN L PALHEIROS; REINALDO GONZAGA; ALEXANDRE R. SOARES
3:30 – 3:50	DEVELOPMENT OF A HOT CELL FOR POST-IRRADIATION ANALYSIS OF NUCLEAR FUELS (ID: 659)	SELMA SOARES CORREA SILVA; SILVERIO F SILVA JUNIOR; JOÃO ROBERTO LOUREIRO MATOS
3:50 – 4:10	PROGRAM FOR IN-PILE QUALIFICATION OF HIGH DENSITY SILICIDE DISPERSION FUEL AT IPEN/CNEN-SP (ID: 921)	JOSÉ E. R. SILVA; ANTONIO T. SILVA; LUÍS A. A. TERREMOTO; MICHELANGELO DURAZZO
4:10 – 4:30	GAMMA-RAY SPECTROSCOPY ON IRRADIATED FUEL RODS (ID: 879)	LUÍS ANTÔNIO ALBIAC TERREMOTO
4:30 – 4:50	Coffee Break	
Computational Fluid Dynamics		
Time	Title	Authors
5:10 - 5:30	EVALUATION OF A NUMERIC PROCEDURE FOR FLOW SIMULATION OF A 5X5 PWR ROD BUNDLE WITH A MIXING VANE SPACER (ID: 549)	MOYSÉS A. NAVARRO; ANDRÉ A. C. SANTOS
5:30 - 5:50	A STABILIZED FINITE ELEMENT FORMULATION FOR THE SOLUTION OF THE NAVIER-STOKES EQUATIONS IN AXYSIMETRIC GEOMETRY (ID: 286)	ALTIVO A M S MONTEIRO; PAULO AUGUSTO BERQUÓ DE SAMPAIO

5:50 - 6:10	NUMERICAL EVALUATION OF FLOW THROUGH A 5X5 PWR ROD BUNDLE: EFFECT OF THE VANE ARRANGEMENT IN A SPACER GRID (ID: 553)	MOYSÉS A. NAVARRO; ANDRÉ A. C. SANTOS
6:10 - 6:30	THE VISCOUS SLIP COEFFICIENT FOR A BINARY GAS MIXTURE (ID: 354)	ROSENEI FELIPPE KNACKFUSS