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# BRAZIL



# 31<sup>st</sup> INTERNATIONAL GEOLOGICAL CONGRESS

Rio de Janeiro - Brazil  
August 6 - 17 - 2000



## CONGRESS PROGRAM

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**Reis, N. J.; Fraga, L. M.** - THE KANUKU CONCEPT REVIEW IN THE BRAZILIAN PORTION OF CENTRAL GUYANA BELT, GUYANA SHIELD

Date: 14/08/00 - Booth M41

**Reis, N. J.; Fraga, L. M.** - GEOLOGICAL AND TECTONIC FRAMEWORK OF THE RORAIMA STATE, GUYANA SHIELD - AN OVERVIEW

Date: 14/08/00 - Booth M43

**Vasconcelos, C. S.** - TECTONIC EVOLUTION OF THE SOUTHERN PART OF THE RIBEIRA BELT, SOUTHEAST BRAZIL

Date: 14/08/00 - Booth M53

**Vasconcelos, C. S.; Basei, Miguel Angelo Stipp; Dehler, N. M.** - U-PB ZIRCON AGES FROM GRANITOID GNEISSES, SOUTH OF SÃO PAULO STATE, BRAZIL

Date: 14/08/00 - Booth M52

**Scandolara, J.; Quadros, M. L. E. S.; Rizzotto, G. J.; Bahia, R. B. C.; Amorim, J.** - THE PROTEROZOIC TERRANES OF SOUTHWEST AMAZONIAN CRATON, RONDÔNIA STATE, BRAZIL

Date: 14/08/00 - Booth N41

**Araujo, Antonio Alexandre Ventura; Pedro, J.; Munhá, J.; Moita, P.; Ribeiro, A.; Fonseca, Paulo Manuel; Rosas, F.** - THE MOURA PHYLLONITIC COMPLEX: A TECTONIC "MÉLANGE" RELATED WITH THE SOUTHERN IBERIA VARISCAN SUTURE

Date: 14/08/00 - Booth N56

**Chen, Tingyu** - NEOPROTEROZOIC MAGMATISM OF THE MOZAMBIQUE BELT IN EASTERN TANZANIA

Date: 14/08/00 - Booth N21

**Egydio-Silva, Marcos; Vauchez, Alain; Assumpção, M.; Tommasi, Andrea; Barruol, G.; Heintz, M.** - COHERENT CRUST AND UPPER MANTLE DEFORMATION AROUND A CRATONIC CORE: EVIDENCE FROM SURFACE GEOLOGY, NUMERICAL MODELING AND SHEAR WAVE SPLITTING

Date: 14/08/00 - Booth N20

**Fernandez-Alonso, M.; Deblond, Andre; Tack, Luc** - THE WEST CONGOIAN (PAN AFRICAN) BELT: AN UPDATED 1:1 MILLION GEOLOGICAL COMPILATION MAP

Date: 14/08/00 - Booth N19

**Abreu, Pedro Angelo Almeida; Renger, Friedrich E.** - PALEOGEOGRAPHY AND SIGNIFICANCE OF THE LATE MESOPROTEZOIC MOUNTAIN GLACIATION WITHIN THE SERRA DO ESPINHAÇO, MINAS GERAIS, BRASIL

Date: 14/08/00 - Booth N45

**Mosher, S.** - MESOPROTEROZOIC ACCRETION ALONG THE SOUTHERN LAURENTIAN MARGIN-LLANO UPLIFT, CENTRAL TEXAS

Date: 14/08/00 - Booth N32

**Angeli, Nelson; Fleet, M. E.; Moore, M.; Heaman, Larry; Teixeira, Wilson** - THE IPANEMA LAYERED COMPLEX AND ITS ROLE IN THE PROTEROZOIC CRUSTAL EVOLUTION OF THE ATLANTIC BELT, EASTERN BRAZIL

Date: 14/08/00 - Booth N17

**Trouw, Rudolph A. J.; Passchier, C. W.; Paciullo, Fabio Vito Pentagna; Ribeiro, André** - COMPARISON BETWEEN TWO NEOPROTEROZOIC TRIPLE JUNCTIONS, IN SE BRAZIL AND NAMIBIA

Date: 14/08/00 - Booth N15

**Valença, Joel Gomes; Couto, F. M.; Paciullo, Fabio Vito Pentagna; Ribeiro, André; Cherman, Angélica Freitas** - CRUSTAL EVOLUTION IN SOUTHERN SÃO FRANCISCO CRATON (BRAZIL)

Date: 14/08/00 - Booth N33

#### 9-4 Precambrian Supercontinents

*Yuri Leonov (Russia) - Reinhardt Adolfo Fuck (Brazil)*

**Sovetov, Julius K.; Blagovidov, Vladislav V.** - NEOPROTEROZOIC RIFTOGENIC BASINS IN THE SOUTH-WEST OF SIBERIAN CRATON AND BREAK-UP OF RODINIA

Date: 15/08/00 - Booth N24

**Aksenov, Evgeni M.** - GEOLOGICAL DEVELOPMENT OF EASTERN-EUROPEAN PLATFOORM IN NEOPROTEROZOIC

Date: 15/08/00 - Booth N20

**Rosen, Oleg Markovich** - LATE PROTEROZOIC GLOBAL SUPERCONTINENT: THE SIBERIAN CRATON AS A CASE STUDY

Date: 15/08/00 - Booth N25

**Glebovitsky, Viktor A.** - ACHAEAN AND PALEOPROTEROZOIC CONTINENTAL GROWTH: QUANTIFYING TIMESCALE AND PRECAMBRIAN SUPERCONTINENTS

Date: 15/08/00 - Booth N11

**Songnian, Lu; Chunliang, Yang; Haifeng, Yu; Fengqing, Zhao; Huaikun, Li** - NEOPROTEROZOIC OROGENIC EVENTS ON NORTHWEST CHINA

Date: 15/08/00 - Booth N19

**Evans, David A. D.** - QUANTITATIVE RECONSTRUCTIONS OF EARTH'S FIRST SUPERCONTINENTS

Date: 15/08/00 - Booth N18

**Wu, Changhua** - THE NORTH CHINA CRATON - A PALEOPROTEROZOIC ASSEMBLED CONTINENT

Date: 15/08/00 - Booth N21

**Zhong, Changning** - TWO STAGES HIGH-PRESSURE GRANULITE IN THE JOINING REGION OF SHANXI-HEBEI MONGOLIA: THE CRUSTAL EVOLUTIONS OF NEW ARCHEAN TO PALAEO-PROTEROZOIC OF NORTH CHINA CRATON

Date: 15/08/00 - Booth N16

**Mints, Michael V.** - EVOLUTION OF PATE TECTONIC STYLE IN THE EARLY PRECAMBRIAN

Date: 15/08/00 - Booth N15

**Li, Zhong-Xiang** - NEOPROTEROZOIC HIATUS IN CENTRAL RODINIA: LEGACY OF A MANTLE PLUME THAT STARTED THE RODINIA BREAKUP

Date: 15/08/00 - Booth N2

**Thomas, Robert J.; Eglinton, Bruce M.; Jacobs, Joachim** - GEOCHEMICAL AND ISOTOPIC EVOLUTION OF THE MESOPROTEROZOIC CAPE MEREDITH COMPLEX, WEST FALKLAND

Date: 15/08/00 - Booth N23

**Wallbrecher, Eckart; Loizenbauer, Juergen; Fritz, H.** - FROM RODINIA TO GONDWANA, LATE PROTEROZOIC DEVELOPMENT OF THE METAMORPHIC CORE COMPLEXES IN THE EASTERN DESERT OF EGYPT

Date: 15/08/00 - Booth N10

**Theveniaut, Hervé; Rossi, Philippe; Delor, Claude** - PALAEO-PROTEROZOIC CONFIGURATION OF THE WEST AFRICAN AND AMAZONIAN SHIELD BASED ON NEW PALEOMAGNETIC DATA FROM FRENCH GUYANA AND GUINEA

Date: 15/08/00 - Booth N12

**Neves, Benjamin Bley Brito; Campos Neto, Mario Costa** - THE BRASILIANO/PAN AFRICAN COLLAGE

Date: 15/08/00 - Booth N14

**Kovach, V. P.; Larin, Anatoly Mikhaylovich; Salnikova, E. B.; Kotov, Alexandr Borisovich** - WHAT DO WE KNOW ABOUT LAURENTIA-SIBERIA CONNECTION? CONSTRAINTS FROM U-PB ZIRCON GEOCHRONOLOGY AND ND ISOTOPES FOR THE SIBERIAN CRATON

Date: 15/08/00 - Booth N13

**Correa-Gomes, Luiz Cesar; Oliveira, Elson Paiva** - THE 1,0 GA GIANT RADIAL THOLEIITE MAFIC DYKE SWARMS OF EASTERN BRAZIL AND WESTERN CONGO AND CAMEROON (AFRICA): IMPLICATIONS FOR THE INITIAL BREAK-UP OF RODINIA

Date: 15/08/00 - Booth N17

**Puchkov, V.** - MESO- AND NEOPROTEROZOIC SUPERCONTINENTS: A SIGHT FROM RUSSIA

Date: 15/08/00 - Booth N22

#### 9-5 Tectonic Evolution of the South American Platform

*Randall Van Schmus (USA) - Hardy Jost (Brazil)*

**Martins-Neto, Marcelo A.; Soares, Antonio Carlos Pedrosa** - SUPERPOSITION OF SEDIMENTARY BASIN CYCLES FROM LATE PALEOPROTEROZOIC TO LATE NEOPROTEROZOIC IN THE SÃO FRANCISCO CRATON AND ARAÇUAÍ FOLD BELT, EASTERN BRAZIL

Date: 07/08/00 - Booth N41

**Romero, Antonio Wilson; Renger, Friedrich E.; Knauer, Luis Guilherme** - NEW ASPECTS OF THE GEOLOGY OF THE BELO HORIZONTE SHEET, SCALE 1:250.000 (MINAS GERAIS, BRAZIL)

Date: 07/08/00 - Booth N44

**Morales, Norberto; Zanardo, Antenor; Hasui, Yocheru** - TECTONIC EVOLUTION OF THE ALFENAS GRANULITE BELT - SE BRAZIL

Date: 07/08/00 - Booth N42

**Gonzalez, Sidney; Faria, Marcia Molo; Araujo, J. F. V.** - REGIONAL GEOLOGY OF THE UPPER NEGRO RIVER AREA - AMAZON - BRAZIL

Date: 07/08/00 - Booth N38

**Jimenez, Beatriz Castro; Botero Zuluaga, Pedro José; Costa, J. B.; Borges, Mauricio Silva** - THE COLOMBIAN ORINOQUIA - AMAZONIA RELIEF EVOLUTION

Date: 07/08/00 - Booth N49

**Cingolani, Carlos Alberto; Ferrando, L.; Pineyro, N.; Bossi, Jorge; Campal, N.; Varela, R.; Schipilov, A.** - GEOCHRONOLOGY AND ISOTOPIC SIGNATURE OF THE PIEDRA ALTA TERRANE, URUGUAY

Date: 07/08/00 - Booth O14

**Pinese, José Paulo Peccinini; Iacumin, M.; Piccirillo, E. M.; Ribot, Alejandro M.; Renne, P. R.; Teixeira, Wilson; Girardi, Vicente A. V.; Echeveste, H.; Fernandez, R.** - GEOCHRONOLOGY OF THE CALC-ALKALINE DYKES FROM THE TANDILIA SYSTEM, ARGENTINA

Date: 07/08/00 - Booth N52

**Milani, Edison Jose** - STRUCTURAL TRENDS IN THE PRECAMBRIAN FLOOR OF THE PARANÁ BASIN

Date: 07/08/00 - Booth N43

## U-Pb Zircon ages from granitoid gneisses, south of São Paulo State, Brazil

<sup>1</sup>VASCONCELOS, C.S.; <sup>1</sup>DEHLER, N.M. and <sup>2</sup>BASEI, M.A.S.  
<sup>1</sup>Geological Survey of Brazil, São Paulo, Brazil; <sup>2</sup> University of São Paulo - USP, São Paulo, Brazil

During geological mapping of the Jacupiranga (SG.22-X-B-VI-2) and the Rio Guaraú (SG.22-X-B-VI-4) sheets, 1:50,000 scale, achieved three radiometric dating (U-Pb, zircon) were obtained from the following geological units: porphyroclastic orthogneisses (2.1Ga); the Alto Jacupiranguinha granite-gneiss (0.74Ga); and the Itapeúna gneiss (0.63Ga).

The porphyroclastic orthogneisses, Paleoproterozoic age, is the compatible with other data from the Luis Alves cratonic terranes. The Alto Jacupiranguinha granite-gneiss consists of a foliated body of calc-alkaline monzogranite, related to the Rio Pien Suite, and possibly represents a Neoproterozoic precollisional granitoid suite. The Itapeúna gneiss is an anatetic S-type granitoid although its protoliths are mostly impure carbonate rocks from the Turvo-Cajati Complex. The Neoproterozoic age recorded in this unit suggests an important regional migmatization event, possibly related to reworking of the western boundary of the Luis Alves cratonic terranes, which are limited by the Cubatão-Lancinha Shear Zone.

Tectonic interpretation of this setting suggests a continental collision event in the Ribeira Belt evolution.