



31st INTERNATIONAL GEOLOGICAL CONGRESS

Rio de Janeiro - Brazil
August 6 - 17 - 2000

**CONGRESS
PROGRAM**

www.31igc.org

Hood, Dardem G. - RADIOCARBON-DATING; PAST AND PRESENT CAPABILITIES AND LIMITATIONS
Date: 15/08/00 - Booth E36

Renne, P. R.; Mundil, R.; Min, K.; Ludwig, K. R.; Deino, A. L. - REDUCING SYSTEMATIC ERRORS IN 40AR/39AR GEOCHRONOLOGY
Date: 15/08/00 - Booth E42

Machado, Nuno - U-TH-PB DATING BY LASER ABLATION - MASS SPECTROMETRY: PANACEA OR PANDORA'S LATEST BOX?
Date: 15/08/00 - Booth E37

Gerasimov, Vladimir; Lebedev, Vladimir; Arakelyants, Maina - NEW MODIFICATION OF 39AR-40AR LASER DATING METHOD (VIEW FROM PETROLOGY AND THERMOCHRONOLOGY)
Date: 15/08/00 - Booth E43

Solé, Jesus; Lopez, Arturo; Baicázar, M.; Tavera, L.; Morales, P. - CALIBRATION OF A MEXICAN NUCLEAR REACTOR FOR 40AR/39AR DATING
Date: 15/08/00 - Booth E39

Passarelli, Cláudia Regina; Siga Jr., Oswaldo; Basei, Miguel Angelo Stipp; Prazeres Filho, H. P.; Campos Neto, Mario Costa - GEOLOGY AND U-PB GEOCHRONOLOGY OF PRECAMBRIAN TERRANES OF SOUTHEASTERN SÃO PAULO STATE, BRAZIL
Date: 15/08/00 - Booth E4

Johemko, Jerome; Sens, Ernesto; Douthitt, C. - ELEMENTAL AND ISOTOPE RATIO MASS SPECTROMETRY: A QUIET REVOLUTION
Date: 15/08/00 - Booth E34

Fanning, C. Mark; Armstrong, Richard A.; Williams, I. S.; Bennett, Victoria C. - MORE SHRIMP FOR THE GEOLOGIC FEAST
Date: 15/08/00 - Booth E32

Morrison, John; Abell, Ian - OXYGEN-DEUTERIUM ISOTOPIC MEASUREMENTS OF WATER USING A VARIETY OF EA - PYROLYSIS - ISOTOPE RATIO MASS SPECTROMETRY OPERATING IN CONTINUOUS FLOW MODE.
Date: 15/08/00 - Booth E33

Palacz, Zenon; Turner, P.; Meffan-Main, Simon - MULTIPLE ION COUNTING USING AN ICP MULTICollector MASS SPECTROMETER
Date: 15/08/00 - Booth E40

18-3 Regional Geochronology: Case Histories

Liu Dunyi (China) - Ênio Soliani Jr. (Brazil) - Manuel Iturralde-Vinent (Cuba) - Grenville Draper (USA)

Shcherbak, N. P.; Ponomarenko, A. N. - THE CORRELATION OF GEOCHRONOLOGICAL BOUNDARIES BETWEEN MAIN STRATIGRAPHIC SUBDIVISIONS PRECAMBRIAN OF VARIOUS BLOCKS OF THE UKRAINIAN SHIELD
Date: 09/08/00 - Booth F20

Soellner, Frank; Miller, Hubert - CAMBRIAN MAGMA GENESIS AND JURASSIC OVERPRINTING OF A BASEMENT ORTHOGNEISS FROM TIERRA DEL FUEGO, CHILE
Date: 09/08/00 - Booth F2

Cheong, Chanf-Sik; Chang, Ho-Wan - AGE AND SOURCE CHARACTERISTIC OF PHANEROZOIC GRANITES IN SOUTH KOREA
Date: 09/08/00 - Booth F15

Burkut, Yilmaz; Celenli, Ahmet - ON THE ISOTOPIC AGES OF CAUSASII GRANITOID IN ISTANBUL, TURKEY
Date: 09/08/00 - Booth F14

Pystina, Julia - SINGLE ZIRCON PB/PB DATING OF THE POLYMETAMORPHIC COMPLEXES OF THE URALS
Date: 09/08/00 - Booth E62

Pystin, Alexander; Pystina, Julia; Pease, Victoria Lynne - THE METAMORPHIC ASPECT OF THE EARLY PRECAMBRIAN HISTORY OF THE URALIAN SEGMENT OF THE EARTH'S CRUST
Date: 09/08/00 - Booth F29

Bhattacharya, Samarendra - THICK ARCHEAN CONTINENTAL CRUST: NEW EVIDENCE FROM THE INDIAN PENINSULA
Date: 09/08/00 - Booth F3

Bhattacharya, Samarendra - MULTIPLE GRANULITE FACIES OVERPRINTING & PARTIAL MELTING IN A COMPRESSIONAL OROGEN
Date: 09/08/00 - Booth F19

Franz, Bernhard; Schitter, F.; Finger, F. - TIMING OF METAMORPHIC, MAGMATIC, HYDROTHERMAL AND DEFORMATIONAL EVENTS REVEALED BY EMP TOTAL PB DATING OF MONAZITE AND XENOTIME IN THE POLYMETAMORPHIC ASUTROALPINE GROBGNESIS COMPLEX, EASTERN ALPS, STYRIA, AUSTRIA
Date: 09/08/00 - Booth F21

Nam, Tran Ngoc; Toriumi, Mitsuhiro; Matsuda, T.; Itaya, Tetsumaru; Hyodo, H. - MINERAL CHEMISTRY AND EARLY PROTEROZOIC 40AR/39AR AGES OF SYNKINETIC HORNBLENDES SOUTH OF THE RED RIVER SHEAR ZONE IN VIETNAM
Date: 09/08/00 - Booth F32

Nabievich, Ganiev Ibrahimdjan - THE NEW COMPLEX OF ALKALINE BASALTS AS MARKER OF THE UPPER AGE LIMIT OF MAGMATISM IN MEDIAN TIEN-SHAN
Date: 09/08/00 - Booth F23

Nabievich, Ganiev Ibrahimdjan - CONCERNING THE AGE OF ACID MAGMATISM IN CHATKALKYRAMA REGION OF MEDIAN TIEN-SHAN
Date: 09/08/00 - Booth E58

Kostitsyn, Yuri; Preinfalk, Christine; Morteani, G. - THE PEGMATITES IN THE GRANITIC MONLEVADE Banded GNEISSES OF THE AREA OF NOVA ERA-FERROS (MINAS GERAIS, BRAZIL): RB/SR DATING OF INTRUSION AND METAMORPHISM.
Date: 09/08/00 - Booth E35

Castellana, Christina S.; Sial, Alcides Nobrega; Long, Leon E. - ORIGIN OF THE CORONEL JOÃO SÂ PLUTON: IMPLICATIONS FOR THE TECTONIC EVOLUTION OF NE BRAZIL
Date: 09/08/00 - Booth E51

Gouzu, Chitara; Hyodo, H.; Matsuda, T.; Itaya, Tetsumaru - MIDDLE EOCENE AR/AR AGES OF PHENGITE IN UHP METAMORPHIC ROCKS FROM PIEMONTE ZONE, WESTERN ALPS: SINGLE GRAIN DATING BY LASER STEP HEATING
Date: 09/08/00 - Booth E5

Kiselev, Vladimir V. - U-PB GEOCHRONOLOGY OF THE PRECAMBRIAN MAGMATIC AND METAMORPHIC EVENTS WITHIN THE CALEDONIAN AND VARISCAN STRUCTURES OF TIEN SHAN
Date: 09/08/00 - Booth E29

Ragatky, Diana; Tupinambá, Miguel; Duarte, Beatriz Paschoal; Vailadares, Claudia Sayão - ISOTOPIC SIGNATURE (SM/ND) OF METASEDIMENTS FROM CENTRAL RIBEIRA BELT, SE BRAZIL
Date: 09/08/00 - Booth E3

Delenitsin, Alexei Alempianovich; Bayanova, Tamara Borisovna; Balaganskaya, T. - DURATION OF THE PALEOZOIC MAGMATISM IN THE NORTHEASTERN BALTIC SHIELD (RB-SR AND U-PB ISOTOPIC DATA)
Date: 09/08/00 - Booth E30

Kaulina, Tatyana Vladimirovna - ANOMALOUS HIGH CONCENTRATIONS OF COMMON PB IN ZIRCONS FROM THE LAPLAND GRANULITE AND TANAEV BELTS (RUSSIAN LAPLAND)
Date: 09/08/00 - Booth E34

Tremblay, Alain; Ruffet, G.; Castonguay, Sébastien - 40AR/39AR GEOCHRONOLOGY OF THE QUÉBEC APPALACHIANS: RECURRENT COMPRESSION AND EXHUMATION DURING THE PALEOZOIC
Date: 09/08/00 - Booth E28

Nam, Tran Ngoc; Toriumi, Mitsuhiro; Sano, Y. - INDOCHINIAN OVERPRINTING ON THE MIDDLE PROTEROZOIC TECTONOTHERMAL EVENT IN THE KONTUM MASSIF (VIETNAM): FIRST EVIDENCE FROM SHRIMP U-PB ZIRCON AGES
Date: 09/08/00 - Booth F25

Dayal, A. M.; Hussain, S. M. - ISOTOPIC STUDIES ON LAMPROPHYRE DYKES OF SCHIRMACHER OASIS, EAST ANTARCTICA AND THEIR SIGNIFICANCE
Date: 09/08/00 - Booth E37

Dussin, Ivo Antonio; Lobato, Lydia Maria; Macambira, M. J. B.; Paes, Vinicius J. C. - PB-PB ZIRCON AGE FROM A TONALITE NEAR ALVARENGA, MINAS GERAIS, BRAZIL: GEOTECTONIC IMPLICATIONS FOR THE EVOLUTION OF THE ARAÇUAÍ MOBILE BELT
Date: 09/08/00 - Booth E55

Dussin, Tania Mara; Macambira, M. J. B.; Dussin, Ivo Antonio - CHRONOLOGY OF NEOPROTEROZOIC MAGMATISM IN GUANHÃES REGION 207PB/206PB SINGLE ZIRCON EVAPORATION DATA OF ALKALINE GRANITE (MINAS GERAIS, BRAZIL)
Date: 09/08/00 - Booth E39

Dussin, Tania Mara; Macambira, M. J. B.; Dussin, Ivo Antonio - CHRONOLOGY OF MESOPROTEROZOIC GUANHÃES RIVER SEQUENCE: 207PB/206PB SINGLE ZIRCON EVAPORATION DATA OF METAVOLCANIC ROCKS (MINAS GERAIS, BRAZIL)
Date: 09/08/00 - Booth E4

Balintoni, Ioan Coriolan; Creaser, R.; Pana, Dinu - SM-ND DATA FROM BASEMENT ROCKS OF THE ROMANIAN CARPATHIANS
Date: 09/08/00 - Booth E40

Fetter, Allen H.; Van Schmus, W. Randall - U-PB AND SM-ND GEOCHRONOLOGICAL CONSTRAINTS ON THE CRUSTAL FRAMEWORK OF CEARA STATE, NW BORBOREMA PROVINCE, NE BRAZIL
Date: 09/08/00 - Booth E57

Rolando, Ariel Pablo; McNaughton, N. J.; Hartmann, Léo Afraneo; Macambira, M. J. B.; Orestes, J. O.; Fernandez, R.; Schalamuk, Isidoro Bernardo; Etcheverry, R. - ISOTOPIC CONSTRAINTS ON THE PATAGONIAN BATHOLITH (45 °S)
Date: 09/08/00 - Booth E41

Gorayeb, Paulo Sergio Souza; Moura, C. A. V.; Barros, Gisele Ribeiro - PB-PB ZIRCON AGES OF THE PORTO NACIONAL HIGH-GRADE TERRAIN: THEIR MEANING FOR THE EVOLUTION OF THE TOCANTINS SHEAR BELT
Date: 09/08/00 - Booth F35

GEOLOGY AND U-PB GEOCHRONOLOGY OF PRECAMBRIAN TERRANES OF SOUTHEASTERN SÃO PAULO STATE, BRAZIL

PASSARELLI, C.R., BASEI, M.A.S., CAMPOS NETO, M.C., SIGA JR., O., PRAZERES FILHO, H.P. Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil.

Previous geological studies developed in the Mongagua - Cananéia region suggesting the existence of four Precambrian terranes separated by major shear zones are confirmed in the present work. The supracrustal rocks, deformed and metamorphosed at greenschist to amphibolite facies, which occur in the northern part of the dextral Cubatão Shear Zone (CSZ), can be grouped in the Embu Terrane. An intrusive peraluminous monzogranite yields a U-Pb zircon age of 598 ± 15 Ma. The Mongaguá Terrane, of monzogranites and migmatites, comprises the block that outcrops between the CSZ, the coast line and the sinistral Itariri Shear Zone (ISZ) in the south. A concordia plot of 599 ± 3 Ma obtained for a monzo to syenogranite leucosome is the best estimate of the age of the regional migmatization. Between the CSZ-ISZ and Serrinha Shear Zone (SSZ) occurs the northeastern termination of the Curitiba Terrane which is composed by granitoids, migmatites and banded amphibole gnaisses with granulite-charnockite lenses. The U-Pb zircon age of 1888 ± 8 Ma obtained for a deformed amphibole-granitoid closely associated to the migmatites are in good agreement with the available SHRIMP data for the charnockitic rocks. The dextral Serrinha Shear Zone is the northern limit of the Paranaguá Terrane which is composed mainly by igneous rocks of arc related affinities. Quartz-sericite schist, quartzite and pelitic mica schist occur in a narrow and continuous NE-SW belt across the entire block. U-Pb zircon ages obtained for porphyritic biotite monzogranites yield 572 ± 6 Ma and 586 ± 9 Ma.