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## **Proceedings of Fifth Biennial Meeting of LATINMAG, Juriquilla, Querétaro City, México September 2017**

Ana Maria Soler Arechalde, Cecilia Caballero Miranda  
*Editors in charge*

Preface and index of contributions: 12 pages  
with links to: 77 proceedings of regular contributions and  
external links to short abstracts

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## Volume 7, Special Issue

This special issue of **LATINMAG LETTERS** contains the contributions presented at the:

**2017 Biennial Meeting of the  
Latin-American Association of Paleomagnetism and Geomagnetism  
(LATINMAG)**

**September 18-22, 2017**

**UNAM Campus Juriquilla: Centro Académico y Cultural, Querétaro City, México**



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### Preface

The Fifth (2017) biennial meeting of the Latin American Association of Paleomagnetism and Geomagnetism (LATINMAG 2017) was held at the "**Centro Académico y Cultural**" of the **Juriquilla Campus-UNAM**, next to the "**Centro de Geociencias**" (<http://www.geociencias.unam.mx/geociencias/index.html>), in the city of **Querétaro, México**, from September 18<sup>th</sup> to 22<sup>th</sup> of 2017.

This meeting is a special one, since our society celebrates 10 years of its foundation. We give Daniel Valencio recognition to two great colleagues: Marcia Ernesto and Ana Sinito. We remember and pay homage to Ruben Somoza for his important contributions to the paleomagnetism of our region.

The meeting comprises 81 contributions: 4 invited lectures and 77 regular presentations; 45 of the latter were conferences and 28 were presented as posters.





The contributions cover a wide range of topics that were organized in different mixed sessions during the Meeting; the program of the meeting can be seen at: <http://www.latinmag2017.com.mx/documentos/programa.pdf>.

In the present volume the contributions are subdivided into the five main topics described in the Index, and an additional one of general topics, that includes the invited lectures. The Invited Lectures and some contributions are not published here because authors did not present their contributions as Expanded Abstracts, so they are available as short abstracts in the program meeting. The Expanded Abstracts were all submitted to revision, we thanks to the reviewers of the editorial board that did the revisions and of course to the authors for their efforts an quick response. We would also like to acknowledge all members of the Local Organizing Committee for accomplishing a very successful and charming meeting.

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Ana Maria Soler Arechalde, Cecilia I. Caballero Miranda.

**Technical Editor:** Cecilia I. Caballero Miranda.

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| <b>GP04</b>                                               | <b>INVITED LECTURE</b><br><b>ANISOFT – COMPLEX TREATMENT OF MAGNETIC ANISOTROPY DATA</b><br>Short abstract           | <b>Martin Chadima</b><br>AGICO Inc., Brno, Czech Republic<br>Institute of Geology of the CAS, v. v. i., Prague, Czech Republic |



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| <b>GP06</b> | <b>INVITED LECTURE</b><br><b>PRINCIPIOS Y EJEMPLOS DEL MÉTODO MAGNETOTELÚRICO</b><br>Short abstract           | <b>Fernando Corbo</b><br>UNAM - Centro de Geociencias, Queretaro, Mexico |

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| <b>GEP02</b>                                             | ESTUDIO MAGNETOTELÚRICO MARINO EN EL GOLFO DE CALIFORNIA PARA UNA EVALUACIÓN GEOTÉRMICA<br>Short abstract                                                       | <b>Aideliz M. Montiel</b> Álvarez, Romo Jones J. M., Constable S., Gómez Treviño E.                                                     |
| <b>GEP03</b>                                             | DETECCIÓN Y CARACTERIZACIÓN DE RESERVORIOS DE HIDROCARBUROS A PARTIR DE SONDEOS MAGNETOTELÚRICOS. CASO DE ESTUDIO: CHICONTEPEC<br>Short abstract                | <b>Pedro Franco</b> , Corbo-Camargo F., Molina-Garza R.                                                                                 |
| <b>GEP04</b>                                             | <a href="#">UN NUEVO PROGRAMA BASADO EN MATLAB PARA ANALISIS ESPECTRAL DE DATOS MAGNETOMÉTRICOS</a>                                                             | <b>P. Núñez Demarco</b> , Prezzi C., Sánchez Bettucci L.                                                                                |
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| <b>GEP06</b>                                             | REGISTRO DE VARIACIÓN SECULAR DEL VOLCANISMO HOLOCENO DE LA ZONA MANAGUA-MASAYA, NICARAGUA<br>Short abstract                                                    | <b>A. Rodríguez-Trejo</b> , Alva-Valdivia, L.M., Perrin, M., Hervé, G                                                                   |
| <b>GEP07</b>                                             | <a href="#">PRIMERA CURVA DE VARIACIÓN PALEOSECULAR DE LA INTENSIDAD ABSOLUTA GEOMAGNETICA PARA MESOAMÉRICA Y EL SUR DE LOS ESTADOS UNIDOS DE NORTE AMÉRICA</a> | <b>Rafael García-Ruiz</b> , Goguitchaishvili A., Pavón-Carrasco F.J., Morales Contreras J.J., Soler Arechalde A.M.                      |



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| <b>GEP09</b> | <a href="#">NACIMIENTO DE UNA SUPERNOVA, TRANSICIÓN GAUSS-MATUYAMA Y LÍMITE PLIO-PLEISTOCENO</a>                                                                                                       | <b>M. Julia Orgeira</b> , Sinito A.M., Compagnucci R.H.                                                                                               |
| <b>GEP10</b> | ANÁLISIS DE DATOS SATELITALES DE MAGNETOMETRÍA Y GRAVIMETRÍA DE LA EUROPEAN SPACE AGENCY (ESA) PARA EL ESTUDIO DE RASGOS GEOLÓGICOS EN EL TERRITORIO MEXICANO<br>Short abstract                        | <b>Octavio Gómez Flores</b> , Rodríguez López L.J., Gómez Ceballos L.F., Torres Solano J.J., Vázquez Báez V., Alva Valdivia L. M., García Amador B.I. |
| <b>GEP11</b> | <a href="#">RESULTADOS PALEOMAGNÉTICOS Y DE PALEOINTENSIDAD DE UNA SECUENCIA DE COLADAS PLIOCENAS DE SÃO VICENTE (CABO VERDE)</a>                                                                      | <b>Manuel Calvo Rathert</b> , Carrancho A. Caccavari A.                                                                                               |
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| <b>MA02</b>                       | <a href="#">BIOMONITOREO MAGNÉTICO DE LA CALIDAD DEL AIRE EN EL VALLE ABURRÁ (COLOMBIA) A PARTIR DEL USO DE <i>TILLANDSIA RECURVATA</i></a> | <b>D. Mejia</b> , Duque J.F., Chaparro M.A.E., M.A.E. Chaparro3; Castañeda A.G., Molinari D.              |
| <b>MA03</b>                       | <a href="#">BIOMONITOREO MAGNETICO DE LA CONTAMINACIÓN ATMOSFERICA USANDO HOJAS DE <i>FICUS BENJAMINA</i> EN QUERÉTARO (MÉXICO)</a>         | <b>A.G. Castañeda-Miranda</b> , Böhnell H.N., Chaparro Marcos A.E., Pacheco-Castro A. Chaparro Mauro A.E. |
| <b>MA04</b>                       | USO DE CURVAS TERMOMAGNÉTICAS COMO INDICADOR INDIRECTO DE CONTAMINACIÓN RESIDUAL POR ACTIVIDADES MINERAS<br>Short abstract                  | <b>H. Barceinas</b> , Ortega B., Romero F.M.                                                              |
| <b>MA05</b>                       | <a href="#">RÉGIMEN PALEOHIDROLÓGICO DE UNA CUENCA DE DRENAJE EN EL ESTADO DE JALISCO, MÉXICO: ESTUDIOS DE MAGNETISMO AMBIENTAL</a>         | <b>G. Vázquez</b> , Goguitchaichvili A., Roy P., Morales J.                                               |



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| <b>MA06</b> | <a href="#"><u>ESTUDIO MAGNÉTICO DE MATERIAL PARTÍCULADO DE VIALIDADES URBANAS CON DIFERENTE TIPO DE TRANSPORTE</u></a>                           | <b>Rubén Cejudo</b> , Goguichaisvili A., Bautista F., Cervantes M., Morales J., Cortés J.                                                 |
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| <b>PM04</b> | <a href="#"><u>PERMO-TRIASSIC COLLISION OF PATAGONIA? PALEOMAGNETIC EVIDENCE</u></a>                                                                                                     | <b>Tomás Luppo</b> , Rapalini A.E., Martínez Dopico C., López de Luchi M., Miguez M., Fanning C.M.                     |



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| <b>PM PALEOMAGNETISM, MAGNETOESTRATIGRAPHY, TECTONICS AND MAGNETIC FABRICS (cont)</b> |                                                                                                                                                                        |                                                                                                                              |
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| <b>PM26</b>                                                                           | <a href="#"><u>REVALUACIÓN DE LAS EXCURSIONES GEOMAGNÉTICAS REGISTRADAS EN FLUJOS DE LAVA DE LOS CAMPOS VOLCÁNICOS CEBORUCO Y TEQUILA, OESTE DE MÉXICO</u></a>         | <b>M. Cervantes-Solano</b> , Goguitchaichvili A., Rosas-Helguera J., Cejudo-Ruiz R., Morales-Contreras J., García-Pérez J.H. |
| <b>PM27</b>                                                                           | <a href="#"><u>ESTRATIGRAFIA MAGNÉTICA DO FURO DSDP-511 (PLATÔ DAS FALKLANDS) DURANTE O BARREMIANO-APTIANO</u></a>                                                     | <b>Janine A. Carmo</b> , Trindade R.I.F, Tedeschi L.R.                                                                       |
| <b>PM28</b>                                                                           | <a href="#"><u>ESTUDIO PRELIMINAR DE ANISOTROPÍA DE LA SUSCEPTIBILIDADE MAGNÉTICA DE MIGMATITAS DDEL COMPLEJO XOLAPA</u></a>                                           | <b>J.Alberto Figueroa- Guadarrama</b> , Garza R.S., Peña-Alonso T.A., Latorre-Correa C.                                      |
| <b>PM29</b>                                                                           | <a href="#"><u>ANISOTROPIAS MAGNÉTICAS E IMPLICAÇÕES SOBRE O MODO DE COLOCAÇÃO DO GRANITO ANTA (SAPUCAIA-RJ): RESULTADOS PRELIMINARES</u></a>                          | <b>Odirney Benedito</b> , Raposo M.I.B.                                                                                      |
| <b>PM30</b>                                                                           | <a href="#"><u>RESULTADOS PRELIMINARES DE ANISOTROPIA DE SUSCEPTIBILIDADE MAGNÉTICA E MINERALOGÍA MAGNÉTICA DO COMPLEXO VULCÂNICO CAVIAHUE-COPAHUE (ARGENTINA)</u></a> | <b>Thiago R. Moncinhatto</b> , Haag M.B., Hartmann G.A., Savian J.F., Poletti W., Sommer C.A., Caselli A.T., Trindade R.I.F. |
| <b>PM31</b>                                                                           | <a href="#"><u>PALEOMAGNETISM OF THE MEDICILANDIA SILL FROM THE CENTRAL ATLANTIC MAGMATIC PROVINCE, AMAZON BASIN, BRAZIL</u></a>                                       | <b>G. Moreira</b> , Ernesto M.                                                                                               |

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| <b>MR02</b>              | <a href="#"><u>LATE-HOLOCENE GEOMAGNETIC SECULAR VARIATION IN THE SOUTHERN ARGENTINA: TOWARDS THE CONSTRUCTION OF REGIONAL TYPE CURVES</u></a> | <b>C. Gogorza</b> , Orgeira M.J., Irurzun A., Llera M.                                                                                                   |
| <b>MR03</b>              | <a href="#"><u>A PALEOMAGNETIC DATING STUDY OF RÍO VALDÉZ PALEOLAKE OUTCROUP (TIERRA DEL FUEGO, ARGENTINA)</u></a>                             | <b>P. Palermo</b> , Gogorza C., Irurzun A., Orgeira M.J., Coronato A., Sinito A.                                                                         |



| <b>MR ROCK MAGNETISM (cont)</b> |                                                                                                                                                                               |                                                                                                             |
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| <b>MR05</b>                     | <a href="#"><u>SED FOR OPTIMAL ACQUISITION DESIGN AND SENSOR-TO-SAMPLE DISTANCE APPLIED TO SCANNING MAGNETIC MICROSCOPY</u></a>                                               | <b>A. L. A Reis</b> , Oliveira Jr, V. C.                                                                    |
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| <b>AM02</b>               | THREE DECADES OF ARCHAEO-MAGNETIC DATING AT THE OFFICE OF ARCHAEOLOGICAL STUDIES, MUSEUM OF NEW MEXICO: LESSONS LEARNED AND HOPE FOR THE FUTURE<br>Short abstract | <b>J. R. Cox</b>                                                                                      |
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| <b>AM05</b>               | <a href="#"><u>ESTUDIOS ARQUEOINTENSIDAD SOBRE CERÁMICAS PREHISPÁNICAS EN EL ABRIGO LA CEIBA, CHIAPAS, MÉXICO: RESULTADOS PRELIMINARES</u></a>                    | <b>Verónica López-Delgado</b> , Gogichaishvili A., Soler-Arechalde A. M., Acosta G..                  |



| <b>AM ARCHEOMAGNETISM (cont)</b> |                                                                                                                                                                                                |                                                                                                                                                                 |
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| <b>AM06</b>                      | LATE QUATERNARY SECULAR VARIATION DATA FROM MEXICO: ATTEMPTS FOR CONSTRUCTING A HIGH RESOLUTION LOCAL SECULAR VARIATION CURVE<br>Short abstract                                                | <b>Ahmed Nasser Mahgoub</b> , Böhnel H., Juárez E., C. Siebe, Manzanilla L., A. Cyphers, Sieron K.                                                              |
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| <b>AM11</b>                      | <a href="#">INITIAL REFERENCE CURVE OF THE GEOMAGNETIC FIELD INTENSITY IN WEST AFRICA COVERING THE AGE INTERVAL BETWEEN 0-2000 AD</a>                                                          | <b>L. Kapper</b> , Serneel V., Panovska S., Hellio G., Sanchez S., Donadini F., de Groot L., García Ruiz R., Goguichaishvili A., JMorales J., Cejudo Ruiz R.    |
| <b>AM12</b>                      | <a href="#">VARIACIÓN SECULAR REGISTRADA EN CERÁMICAS DEL NORTE DEL ESTADO DE CHIHUAHUA</a>                                                                                                    | <b>Mitsui M. Salgado Saito</b> , Alva-Valdivia L.M., Cruz Antillón R.                                                                                           |
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