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## **Proceedings of Sixth Biennial Meeting of LATINMAG, Rancagua, Chile November 2019**

Fernando A. Poblete G., Cecilia I. Caballero Miranda  
*Editors in charge*

Preface and index of contributions: 11 pages  
with links to: 72 proceedings of regular contributions and  
short abstracts

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## Volume 9, Special Issue

The present Special Issue of **LATINMAG LETTERS** includes the proceedings of the contributions sent to the:

***Sixth (2019) Biennial Meeting of the***  
**Latin-American Association of Paleomagnetism and Geomagnetism**  
**(LATINMAG)**

to be held at the

Rancagua campus of the University of O'Higgins in Rancagua, Chile

November 18 -22, 2019



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### Preface

The central topic of participations in this number is Paleomagnetism and Geomagnetism in Latin America: contributions and perspectives to the community, with the idea of highlighting the involvement of our discipline to society, the new possibilities that are looming on the horizon, and its insertion in the international context.

Despite the fact that the organization of this meeting was perfectly planned and arranged, the intense social manifestations that shook Chile during the last quarter of 2019 prevented its performance as planned. Making the decision of cancellation was very difficult, as we were aware of the enormous efforts that many of the affiliates had made to attend. Due to this, we are publishing the participations sent to the meeting in order to rescue the effort of all enthusiastic collaborators. We want to thank the trust given by the latinmag community to the Organizing



Committee of Latinmag 2019. It was a great dream and challenge to have the opportunity to hold this meeting in Rancagua, Chile, and it was a great disappointment the fact that we could not carry it out.

The contributions contained in this issue are 72, almost all of them are extended abstracts, of which 39 were sent for oral presentations and 33 for posters. They are grouped in four main fields: (A) Evolution of the Earth's Magnetic Field (B) Earth's Geodynamics, (C) Rock Magnetism and (D) Methods and Applications of Magnetism.

We deeply thank all the authors who have contributed to this special volume and to the web version of the congress at [www.elatinmag.com](http://www.elatinmag.com). And finally special thanks to the Editorial Committee for their help in reviewing the abstracts, as well as to our main Editor Augusto Rapalini for reviewing the final versions.

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Fernando Poblete, Cecilia I. Caballero Miranda

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## C. Rock Magnetism / Magnetismo de Rocas

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| C.10-P<br>111          | <a href="#">MAGNETIC FABRIC OF A POST-COLLISIONAL PLUTON IN THE NEOPROTEROZOIC ARAÇUAÍ HOT OROGEN</a>                                                                                                                | <b>F. A. Temporim,</b><br>R. I. F. Trindade, E. Tohver, C. C. V. Soares,<br>L. P. Gouvêa, M. Egydio-Silva,<br>G. F. Souza Jr.                         |
| C.11-P<br>118          | <a href="#">MAGNETIC CHARACTERIZATION OF SEDIMENTS FROM LAKE FONCK CHICO, ARGENTINA</a>                                                                                                                              | <b>A. Irurzun,</b><br>F. Petruzzella, C. Gogorza, J. Massaferro,<br>A. Sinito                                                                         |

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| C.12-P<br>120 | <a href="#">ESTUDIOS PALEOMAGNÉTICOS Y DE MAGNETISMO DE ROCAS EN EL AFLORAMIENTO EL CHIMBORAZO (SAN LUIS, ARGENTINA): RESULTADOS PRELIMINARES</a>                                  | <b>C. Gogorza,</b><br>M.A. Irurzun, G. Heider, A. Gogichaishvili, G. Ojeda, J. Chiesa, C. Greco |
| C.13-P<br>122 | <a href="#">CARACTERIZAÇÃO DA FÁBRICA MAGNÉTICA DOS DIQUES MAFICOS DO DOMO SERRA DOS MEIRAS – BA</a>                                                                               | <b>C. A. Deiroz Amaral,</b><br>E.Tohver, S. Zincone, R. I. F. Trindade                          |
| C.14-P<br>129 | <a href="#">THE PERVASIVE SAN RAFAELIC REMAGNETIZATION IN CARBONATES: ROCK MAGNETIC STUDY ON SAMPLES FROM THE LA FLECHA FORMATION (LA RIOJA PROVINCE, ARGENTINE PRECORDILLERA)</a> | <b>S. Y. Fazzito,</b><br>A. E. Rapalini, S. E. Geuna, D.G. Poiré                                |
| C.15-P<br>156 | <a href="#">FÁBRICA MAGNÉTICA DE LA FORMACIÓN CHICONTEPEC, PUEBLA</a>                                                                                                              | <b>C. Valbuena-Puerta,</b><br>R. Molina-Garza                                                   |
| C.16-P<br>169 | <a href="#">THE MAGNETIC PROPERTIES OF SOME FOODS</a>                                                                                                                              | <b>P. Roperch</b>                                                                               |
| C.17-P<br>174 | <a href="#">PROPIEDADES MAGNÉTICAS DEL SUSTRATO DEL SALAR DE CARCOTE (ALTIPLANO ANDINO) COMO PARÁMETROS ESENCIALES PARA EL ENTENDIMIENTO DE LA PROCEDENCIA SEDIMENTARIA</a>        | <b>A. Flores,</b><br>H. Pizarro, J. Luque, A. Aranguiz                                          |

## **D. Magnetism Methods and Applications / Métodos y Aplicaciones del Magnetismo**

### **D. Lectures / Charlas (O)**

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| D.01-O<br>102  | <a href="#">CIRCUIT ARRANGEMENT TO MITIGATE INTERFERENCE IN THE MEASUREMENT OF SMALL MAGNETIC FIELDS</a>                                   | E. Zothner, J.G. Zola                                                                                                                                   |
| D.02-O<br>113  | <a href="#">EL ANÁLISIS DE LA VARIACIÓN DEL CMT COMO UNA HERRAMIENTA INTERDISCIPLINARIA EN LOS ESTUDIOS HOLOCENOS DEL CENTRO DE MÉXICO</a> | <b>N. Pérez-Rodríguez,</b><br>J. Morales, R. Cejudo-Ruiz, F. García-Tenorio, A. Goguitchaichvili                                                        |
| D.03-O<br>128  | <a href="#">DEVELOPMENT OF AN AUTOMATED SUPERCONDUCTIVE ROCK MAGNETOMETER AND PERIPHERAL DEVICES</a>                                       | <b>N. Hernández,</b><br>P. Pedrazzini, V. Correa, M. Vazquez Mansilla, J. Luzuriaga, M. Gomez Berisso, J. Guimpel, R. Trindade, J. Nigro, R. Tomezzoli. |

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| D.04-O<br>134         | <a href="#">DETERMINACIÓN DE PROPIEDADES MAGNÉTICAS Y CONCENTRACIÓN DE METALES PESADOS EN SUELOS DE LA CIUDAD DE MÉXICO</a>                                               | <b>R. Cejudo.,</b><br>A. Goguichaisvili, F. Bautista, J. Morales, B. Espinosa                                           |
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| D.05-O<br>137         | <a href="#">EXPERIMENTAL TESTING OF THE EFFECT OF SAMPLE INHOMOGENEITY ON MEASURED REMANENCE VECTOR</a>                                                                   | <b>M. Chadima</b>                                                                                                       |
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| D.07-P<br>103         | <a href="#">SISTEMA DE MEDICIÓN REMOTA DE CAMPO MAGNÉTICO PARA SEÑALES PRECURSORAS SISMICAS DE MUY BAJAS FRECUENCIAS</a>                                                  | <b>N. Trench,</b><br>R. Alonso, L. Carducci, J. Kelly, E. Maffia, E. Zothner, J. Zola, W.G. Fano                        |
| D.08-P<br>104         | <a href="#">MEDICIÓN Y PROCESAMIENTO DE SEÑALES PARA LA DETECCIÓN DE ANOMALÍAS DE CAMPO MAGNÉTICO DE MUY BAJAS FRECUENCIAS</a>                                            | <b>L. M. Carducci,</b><br>F. Luna, R. Alonso, J. Julio, E. Zothner, W.G. Fano                                           |
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| D.10-P<br>125         | <a href="#">MAGNETIC SUSCEPTIBILITY ANISOTROPY AND PALAEOMAGNETISM OF VOLCANIC ROCKS NEAR SOLEDADE CITY, RS, BRAZIL</a>                                                   | <b>T. Pescarini,</b><br>M. I. Bartolomeu Raposo                                                                         |
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| D.13-P<br>138 | <a href="#"><u>ESTUDIO PALEOMAGNÉTICO INTEGRAL<br/>REALIZADO EN EL ENJAMBRE DE DIQUES<br/>BASICOS DE NICO PÉREZ-ZAPICÁN, URUGUAY</u></a> | <b>M. Cervantes-Solano,</b><br>L. Sánchez Bettucci, Claudia Gogorza, A.<br>Goguitchaichvili, J. Morales-Contreras,<br>Augusto Rapalini |
| D.14-P<br>145 | <a href="#"><u>VALIDACIÓN DE METODOS MAGNÉTICOS<br/>PARA LA CLASIFICACIÓN DE CONDRITOS<br/>ORDINARIOS DE REPOSITARIOS CHILENOS</u></a>   | <b>S. Aravena-González,</b><br>D. Moncada, M. Valenzuela, C. Arriagada.<br>F. Poblete, M. Parra                                        |
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