Andean Geology - Special Issue dedicated to Francisco Hervé: **Global tectonic processes of the ancient southwestern Gondwana margin in South America and the Antarctic Peninsula**

Edited by:

Mauricio Calderón, PhD, Universidad del Desarrollo, Chile - mauriciocalderon@udd.cl

Paula Castillo, PhD, Universität Münster, Deutschland - paula.castillo@uni-muenster.de

Robert Pankhurst, PhD ScD, United Kingdom - rjpankhurst@gmail.com

Submission status: **October 2024 //** Submission deadline: **July 2025**

Summary:

This special number of the Andean Geology (formerly Revista Geológica de Chile) is intended to review and celebrate the contribution of Professor Francisco Hervé to our knowledge of the geological evolution of the southwestern margin of Gondwana, a field in which he has worked tirelessly over more than 60 years.

Those who have had the opportunity to know and work with Francisco Hervé (Pancho, as is known among colleagues and friends) recognize him as an outstanding, charming, and diplomatic geologist with an infectiously positive attitude towards both science and culture. Pancho has spent the majority of his career in Santiago at the Departamento de Geología, Universidad de Chile, having completed a doctorate in 1968 in Paris on the petrology of mafic rocks in the Massif Central of France and in 1975 a further doctorate in Japan studying the petrology of basement complex at Cordillera Nahuelbuta. His work is highly valued by the national and international geoscience community, and he has received numerous awards and honours. Pancho has been a member of the Academia Chilena de Ciencias, Instituto de Chile since 2001 and is also an honorary member of the prestigious science academies of Argentina (Córdoba) and Buenos Aires. He has served as vice-president of the International Union on Geological Sciences (1992-2000) and a board member of the Sociedad Geológica de Chile during several periods and has continued to serve on numerous committees in national and international scientific initiatives, congresses and symposia. Pancho was instrumental in promoting Chilean participation in the study of the igneous and metamorphic rocks of the Patagonian Andes and Antarctic Peninsula, thereby opening the door for many Chilean students and researchers and strongly influencing their early careers. Since 2008, he has promoted the development of the geological heritage of Chile through the Geosites program of the Sociedad Geológica de Chile as a tool for geology education. He retired from the Universidad de Chile in 2024 but remains as part-time full professor at the Universidad Andrés Bello since 2011. Currently Francisco Hervé is Editor Emeritus of Andean Geology.

Pancho's research has concentrated on global tectonic processes in active continental margins, with emphasis on the continental growth and tectonic evolution of the ancient southwestern margin of Gondwana. His focus has been the study of igneous and metamorphic rocks and minerals as the key to unravelling the Earth's geological history. International cooperation projects of CONICYT (Chile) with France (ECOS), USA (NSF), Germany (BMBF), Argentina (CONICET), and IGCP (UNESCO) allowed access to modern analytical facilities and interaction with renowned scientists for himself and numerous

students. Together with colleagues and friends from Brazil, Chile, Argentina, the United Kingdom, and Australia, he has been central to pioneering projects in the isotope geochemistry and geochronology of the Andes. This research into unravelling the complicated tectonic history of accretionary complexes and batholiths, especially in Patagonia, has led to published articles that are widely known and cited by the world's geological community. The results of FONDECYT-sponsored projects have led the team to propose the existence of a Devonian parautochthonous volcanic island-arc terrane, which they named Chaitenia, accreted to southwestern Gondwana in late Paleozoic times.

Pancho's scientific and academic impact is in part related to his outstanding writing and editing skills. Matched with his wider interests in history and education, this led him to write imaginative novels about notable characters in the history of Chile (*Soy Jemmy Button el salvaje, La incredible historia de Orelie Antoine, Rey de la Araucanía*) and books for children introducing the wonders of geology. His bright personality, generosity and role as supporter and promoter of Earth sciences and geology will have a long-lasting impact on our community.

Authors who would like to be part of this celebratory volume are encouraged to submit review and research papers highlighting state-of-the-art knowledge of the geological evolution of the Southern Andes, the Antarctic Peninsula, and the Scotia Arc.

Topics of interest include:

- The Paleozoic to Mesozoic tectonic evolution of the Andean ranges.
- Petrology of metamorphic rocks and their tectonic implications.
- Accretionary prism and strike-slip fault systems in convergent margins.
- Patagonia and Antarctic Peninsula geological connections.
- Other contributions outlining novel research in Patagonia and the Antarctic Peninsula.

Proposed editorial standards:

- Abstract of 300 words maximum.
- Text with a maximum of 10,000 words (including references).
- Maximum 6 Figures.
- Maximum 2 Tables.

Manuscripts should be received between October 2024 and July 2025. The Special Issue will be published in late May 2026. Prior abstract submissions are not necessary, but a clear indication of the intended scope to the guest editors would be appreciated. The editors welcome contact to discuss ideas for manuscripts.

For other enquiries, please contact andeangeology@sernageomin.cl