



IV SIMPOSIO INTERNACIONAL DE BIOMÍMESIS

22,23 y 24 de Noviembre en Barcelona, España



"Biomimética: Renovación en Armonía con la Naturaleza y Tecnociencia para una Economía y Sociedad del conocimiento"



"We are made of stellar matter" and "We are the means for the cosmos to know itself" Carl E. Sagan (1934-1996)

Introduction

We live in a historical phase of development of humanity and its civilization presents extraordinary moments, with a series of processes such as complex and incommensurable dynamics.

However, the Anthropocene era also faces dynamics that generate uncertainty and complexity, threatening the durability of the current postmodern civilization. War conflicts, financial crises, environmental disasters and pandemics are some of the challenges that endanger our inter- and intragenerational stability as a *Homo sapiens sapiens* species and with the other species with which it has been co-evolving.

To address these challenges, the proposal of a biomimetic postmodern society arises, which seeks to regenerate, renaturalize and have resilience with anthropogenic environments, living in symbiotic harmony with the components of Nature. Recognizing it as a subject of law, avoiding the extinction of the human species and continuing co-evolution with other species in the Biosphere. It aspires to establish an ecological civilization based on "Good Living", peaceful coexistence and in symbiosis with Nature.

Symbiotic interaction, as resilient, manifests itself in diverse cultures and built environmental systems. It is essential to recognize the integral part with Nature and understand the function as mediators for knowledge of the cosmos. Although some knowledge has been achieved about the cosmos and its forces, there is still much to discover to protect the biotic and abiotic components of Nature and fully understand our reality.

Despite the challenges, advancement in science and technology brings exciting opportunities with infinite horizons of exploration for intelligent knowledge. However, it is crucial to handle this knowledge properly and address the constant threat of destructive conflict in order to preserve existence and life as it is known. Through the exploration and protection of the environment, it is possible to continue advancing transdisciplinary knowledge about the origin of life, human evolution, and ensure a sustainable future.

From the perspective of transdisciplinarity and for the purpose of promoting a bio-inspired holistic science, Three International Biomimicry Symposiums have been held: Leticia (2017, Amazonas, Colombia), Cobija (2019, Pando, Bolivia) and Xalapa (2021, Vera Cruz, Mexico), and between Wednesday the 22nd, Thursday the 23rd and Friday the 24th of November 2023, **the IV International Biomimicry Symposium** will be held, **entitled "Biomimetics: Renewal in Harmony with Nature and Technoscience for a Knowledge Economy and Society"**. This great academic, technical, scientific and bio-inspired arts event, It is organized by the **International, Interuniversity and Interinstitutional Network of Studies on Biomimesis - RI3BIOMIMICRY NETWORK**, and led and sponsored, on this occasion, by the **Biomimetic Sciences Institute (BSI) Foundation/ Biomimetic Sciences Institute (BSI), Catalonia, Spain**. Having as organizational support the Universidad Veracruzana, the Universidad Externado de Colombia, the Amassunu Association for the

Interculturality and Biomimesis University of the Basque Country/Euskal Herriko Unibertsitate (UPV/EHU).

The thematic axes of this edition seek to generate awareness in favor of sponsoring a revolution and with it a biomimetic renewal, through a holistic, but bioinspired science, aimed at implementing an economy and knowledge society in harmony with Nature; and build an ecological civilization. These are:

1. Biomimetic Philosophy and Rights of Nature. Topics such as ecology, eco-evolution, ecological economics and Nature as a Subject of Law.



2. Bio-inspired disruptive cutting-edge Sciences and Technologies. They include bio-inspired technologies from different areas of knowledge and especially those related to engineering and biology.



3. Bio-inspired entrepreneurship



4. Human health and neurosciences in harmony with Nature.



5. Bioinspired Agriculture



6. Textiles bioinspirados



7. Bio-inspired Arts and Nature



8. Bioinspired student research



9. Mixed theme



invited organizations

· CENTER OF STUDIES AND EXPERIENCE IN BIOMIMETISM (CEEBIOS) (France): <https://ceebios.com/>



Ceebios

· POLITECNICO DE TURIN (ITALY): <https://www.polito.it/node/137>



· SETÚBAL POLYTECHNIC INSTITUTE (PORTUGAL): <https://www.ips.pt>



· UNIVERSITY OF WAGENINGEN (HOLLANDA): <https://www.wur.nl/es.htm>



· UNIVERSITY OF CALIFORNIA RIVERSIDE (USA): <https://www.ucr.edu/>



· LATROBE UNIVERSITY (AUSTRALIA): <https://www.latrobe.edu.au/>



· INTERNATIONAL OBSERVATORY ON THE RIGHTS OF NATURE (Canada):
<https://observatoirenature.org/>



· HARMONY WITH NATURE, UNITED NATIONS (UN),
(WASHINGTON, USA): <http://www.harmonywithnatureun.org/>



· UNITED NATIONS DEVELOPMENT PROGRAM (GENEVA):
SWITZERLAND) <https://www.undp.org/>

