



# World Academy of Art and Science

FORM FOR NOMINATING CANDIDATES  
FOR JUNIOR, ASSOCIATE AND FULL FELLOWSHIP  
TO BE FILLED IN BY THE NOMINATING FELLOW

Personal Data of the Candidate	
Title (Dr., Prof., Ms., Mr., etc.)	Prof. Dr.
First Name	Ioannis
Middle Name and Surname	Liritzis
Gender	Male
Nationality	Greek
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Social Media Handles	
Designation/Job Title	Dean
Institutional Affiliation/Organization	Class IV, EASA
Educational Qualification	<i>PhD Nuclear Physics Applied in Archaeology</i>
Areas of Interest	Physics, Cultural Heritage
Nominating WAAS Fellow	Aleksander Zidanšek
Seconding WAAS Fellow	Stefan Brunnhuber

1. **Relationship:** Describe your relationship to the candidate and how you became aware of their accomplishments and impact. (150-200 words)

Professor Ioannis Liritzis has been a Professor of Physics at many world-leading universities, a distinguished member of the European Academy of Sciences and Arts (EASA) and an essential researcher in the physics of archaeology for a long time. When I met him, he was already the Dean of Class IV at EASA and is now its Vice President. He always stood out with his remarkable commitment to excellence, to science and its application in practical matters through various worthwhile projects and other initiatives. I was particularly impressed by his excellent contribution to the joint WAAS and EASA meeting on 21 October 2024 in Maribor, when he participated live on site, gave an excellent speech on "Archaeology in Peace" demonstrating what archaeology can contribute to global peace vision, but also encouraged participants with his commitment and kindness to do the best, so that we all together made a very successful meeting.

2. **Reasons for Nomination:** Provide a detailed explanation as to why you are nominating this candidate, what is noteworthy about the nominee, what is significant about their contributions, achievements and impact, and how it is relevant to WAAS. (150-400 words)

The most important reason for the nomination of Professor Ioannis Liritzis is his commitment to academic excellence in applications of Physics in Art, History, Archaeology, Palaeoenvironment, & Cultural Heritage, which has been expressed, among others, in various activities of EASA, WAAS, and other organisations. Professor Ioannis Liritzis is currently Vice President of EASA. He is also a Professor at the Institute of Capital Civilization, Laboratory of Yellow River Cultural Heritage, Key Research Institute of Yellow River Civilization and Sustainable Development & Collaborative Innovation Center on Yellow River Civilization at Henan University in Kaifeng. In

addition, his research excellence is also demonstrated in his standing as the top 2% researcher in all subjects and the top 0.59% researcher in archaeological sciences/Cultural/Historical Studies of the 2021, 2022 and 2023 Stanford University list.

In all his activities in WAAS events, Professor Ioannis Liritzis demonstrated commitment, knowledge and excellent communication, which makes him an outstanding candidate for nomination for WAAS Member.

3. **Distinction or Leadership in their Profession:** List reason(s) why the candidate merits election to WAAS based on their distinction or leadership in their profession. If the candidate is in an organisation they have founded themselves, please explain the importance and impact of the organisation. (150-400 words)

Professor Ioannis Liritzis has been active as a Professor at The University of the Aegean, Henan University and many other leading research centres.

Professor Liritzis is best known for the invention of two novel dating methods, the first for surface luminescence dating introduced in 1994, where he extended the principles behind optical dating and thermoluminescence dating to include surfaces last seen by the sun before buried and the second one for the obsidian hydration dating, which he introduced at 2002.

He also held many administrative posts, such as Head of the Dept, Director of Laboratory, Member of the Senate University of the Aegean, Member of the School of Human Sciences, Member of the Temporal General Assembly of the Dept. of Archaeology, History and Cultural Management and of the Dept of Classics, at the University of Peloponnese, Member of Temporal General Assembly of the Dept. of Regional Economic Development Univ. of Central Greece, Member of the Executive Committee of National Recognition of Foreign Academic Diplomas (NARIC), (Responsible for Natural Sciences & in Humanities & Distance Learning) (2005-2008 & 2019- ), National Expert in 7th FP of European Union in the Programme Cooperation (SocioEconomic Sciences & Humanities) 2006-2009 and many others.

Professor Liritzis has been elected as Membre Correspondant de l'Académie des Sciences, Arts et Belles-Lettres de Dijon and Member of the EASAEuropean Academy of Sciences and Arts, where since Jan 2021 he has been Dean of Class IV Natural Sciences and since March 2025 Vice President. He was awarded the Prize of the Academy of Athens for his Book *Archaeometry: Dating Methods in Archaeology* (1986). Recently, he was awarded the Costa Navarino International Archeometry Award (2010), which was issued by the University of Peloponnese. He is a Visiting Distinguished Professor at Henan University (China) and a Visiting Scholar at the University of California San Diego. He has been awarded the title of Honorary Fellow from Edinburgh University, Scotland; Honorary Professor at Rhodes University, Dept of Physics & Electronics, South Africa; Honorary & Guest Professor at the Samara State Institute of Culture, Russia. In addition, he is an editorial member of more than thirty International ICI Journals and is editor-in-chief of two.

His expected impact to WAAS can be best estimated by his current impact at EASA, which has been so prominent that EASA members elected him in March 2025 as one of its three Vice President at competitive democratic elections among seven candidates.

4. **Interdisciplinary Accomplishments:** List reason(s) why the candidate merits election to WAAS based on their interdisciplinary accomplishments. Provide evidence or examples. (150-400 words)

Professor Ioannis Liritzis is a well-known expert in applying physics in a broad range of history-related disciplines, such as archaeology, paleomagnetism, paleoclimatology, archaeoastronomy and archaeomagnetism. He has also been the initiator of the Delphi4Delphi International Project and has written over 300 original papers in internationally cited journals and nine books, most of them interdisciplinary. Many Greek and international magazines and newspapers have referred to his work. For example, the Discovery Channel aired his work on Egypt's pyramids packed with seashells in 2008 and his work on fossils and controversies of Egyptian monuments in 2011. It is

also worth mentioning that Professor Liritzis established the Egyptology Chair in 2003 and managed the appointment of the first lecturer in Egyptology. Since 1998, he has been instrumental in official contacts between the Department of Mediterranean and the Egyptian authorities, which led to Greek and European funding. The role of Professor Liritzis in establishing the interdisciplinary Egyptology Chair has also been recognised by the HERITAGE journal, which published an Honorary Volume upon his retirement. This Volume highlighted the major contributions of Professor Liritzis in establishing the Egyptology chair in Greece and his collaboration with Egyptian researchers on the study of cultural heritage in Egypt.

This was only one of his many interdisciplinary achievements, demonstrating that the candidate will be a strong member of WAAS and actively contribute to its interdisciplinary projects.

5. **Global Perspective or Commitment to Issues of Global Importance:** List reason(s) why the candidate merits election to WAAS based on their global perspective or commitment to issues of global importance. (150-400 words)

In his significant international academic career, Professor Ioannis Liritzis served at The University of the Aegean, the Henan University, the University of Oxford, Université Bordeaux III, the University of Edinburgh, the Academy of Athens, and many others. His broad perspective allowed Professor Ioannis Liritzis to significantly contribute to several interdisciplinary research fields, such as geophysics, astronomy, planetology, paleomagnetism, and paleoclimatology. The scientific work of Professor Ioannis Liritzis has been published in scientific journals such as Nature.

Among many contributions, the most significant, both for WAAS and for the contemporary world, is his commitment to the joint EASA and WAAS efforts for a global peace offensive. He actively participated at both meetings, onsite at the joint WAAS and EASA meeting on 21 October 2024, presenting a talk entitled "Archaeology in Peace" in Maribor, where the vision for the global peace offensive was accepted and signed by WAAS and EASA Presidents.

Professor Ioannis Liritzis also participated online at the "It's About People" conference in March 2025.

Professor Liritzis' knowledge, broad perspective and commitment to scientific excellence make him an excellent candidate for election to WAAS.

6. **Record of Public Service:** List reason(s) why the candidate merits election to WAAS based on their record of public service. (150-400 words)

Professor Ioannis Liritzis has devoted his life to science and public service. He has been elected Member/ Fellow in 16 Greek and International Scientific Societies and has carried out several scientific Programmes funded by EU and Greek Ministries. He is the founder of 3 International Journals, two indexed in SCOPUS (Mediterranean Archaeology & Archaeometry, [www.maajournal.com](http://www.maajournal.com) & SCIENTIFIC CULTURE, <http://www.sci-cult.com/files/>; also recently Proceedings of the European Academy of Arts & Sciences, [www.peasa.eu](http://www.peasa.eu)). He is an Editor, Editor-in-Chief, or Member of the Board in 31 International Journals (included in: ICI, Scopus, and Web of Science (Thomson Reuters/ Clarivate).

Professor Liritzis also has numerous public service roles, such as, among others:

2005 -2008: Member of the Executive Committee of the National Organization for Recognition of Higher Education Diplomas (Greek NARIC) for the Natural Sciences (participation in various Committees of the Organization for Software Supply (Head) and Conferences). Member for Natural Sciences and also for Archaeology degrees.

2006-2009: National Expert in the 7th Framework Programme of European Union in the Programme "Cooperation- Socioeconomical Sciences and Humanities"

2002-2006: Introduced the subject of Physical Sciences in Archaeology (Archaeometry) to the State Scholarship Foundation (IKY) (code no. 1500521537.008.040) and served as the coordinator and examiner.

2009-2010: Member of the Temporal General Assembly for the Dept of Regional Economic Development, University of Central Greece, Livadia, Greece.

2010- : Elected Member of Local Council of the Municipality of Delphi, Head of the Committee of Educational Strategy & Cultural Planning.

7. **Commitment:** Describe the candidate's commitment to the values, mission and objectives of WAAS. (150-400 words)

The candidate's commitment to the values, mission, and objectives of WAAS is most clearly demonstrated in the activities of the global peace offensive, in which he has been an active participant. He was one of the few onsite participants at the joint WAAS and EASA workshop on 21 October 2024, where participants prepared the global peace offensive vision, which was signed at the event by both Presidents Garry Jacobs and Klaus Mainzer. Furthermore, Professor Liritzis participated in March 2025 at the Maribor Conference It's About People 2025, where he further demonstrated his strong commitment to the values, mission and objectives of WAAS. Also at this event, a Call to Action for the global peace offensive was issued and signed by WAAS Vice President Donato Kiniger-Passigli and EASA President Klaus Mainzer, as well as Alma Mater Europaea University Rector Ludvik Toplak.

All of the above demonstrates clear commitment of Professor Liritzis to the values, mission and objectives of WAAS.

8. **Prior Participation in WAAS:** List the WAAS activities in which the candidate has already participated and their contributions. (max. 400 words)

Professor Ioannis Liritzis participated in different WAAS activities.

The first significant involvement of Professor Liritzis with WAAS was the International Conference <https://academyofathens.dotsoft.gr/en/announcements/press-releases/20230808>, where WAAS was among the participating institutions. The Aristotle–Confucius Symposium brought together top scholars from China, Greece, and other parts of the world to explore how we can help to build a new global ethics for the 21st century, one that addresses global challenges while drawing on the ancient wisdom of China and Greece. Professor Liritzis presented a talk entitled "Global Ethics: Self-critique and Dialectics on unchangeable morality principles".

In October 2024, Professor Ioannis Liritzis participated actively in the workshop organised jointly by WAAS and the European Academy of Sciences and Arts in Maribor at the Alma Mater Europaea University on 21 October 2024, where the global peace offensive vision was prepared and signed by EASA and WAAS Presidents. Professor Liritzis presented a talk entitled "Archaeology in Peace".

In addition, Professor Ioannis Liritzis also participated in March 2025 at the Maribor Conference It's About People 2025, which was organised by the Alma Mater Europaea University in cooperation with the European Academy of Sciences and Arts and the World Academy of Art and Science.

9. **Other Comments:** Provide any other information or comments in support of this nomination. (optional, max. 400 words)

Professor Ioannis Liritzis is an outstanding candidate who will enrich WAAS significantly, so WAAS needs more members like him. In addition, his passion for physics, archaeology and their application to foster international cooperation and peace will benefit WAAS significantly and help spread its activities to important topics that can be used also to improve understanding among nations and build world peace.

10. **Responsibility of WAAS Membership:** Has the candidate been informed about the WAAS Bylaws, Code of Ethics, and the requirement of annual membership dues payment? Bylaws and the Code of Ethics are available on the WAAS website. The annual membership dues for Junior Fellows is \$125, dues for Associate Fellows and Fellows is \$225. (Yes/No)

Yes.

11. **Selected Outputs:** List up to 10 of the candidate's major and most recent outputs (knowledge products, publications, artistic outputs etc.) and provide evidence of impact where appropriate.

Some typical scientific articles include the following:

- Portable XRF of archaeological artifacts: current research, potentials and limitations, I Liritzis, N Zacharias, X-ray fluorescence spectrometry (XRF) in geoarchaeology, 109-142, 2011, 279 citations
- A re-evaluation of radiation dose rate conversion factors, I Liritzis, K Stamoulis, C Papachristodoulou, KG and Ioannides Mediterranean Archaeology & Archaeometry (www.maajournal.com) 13 (3), 1-15, 2013, 178 citations
- ARCHAOMETRY: AN OVERVIEW, I Liritzis, N Laskaris, A Vafiadou, I Karapanagiotis, P Volonakis, ... Scientific Culture 6 (1) 2020, 150 citations
- The genetic history of the Southern Arc: A bridge between West Asia and Europe, I Lazaridis, S Alpaslan-Roodenberg, A Acar, A Açıkkol, A Agelarakis, ... Science 377 (6609), eabm4247 2022, 133 citations
- Luminescence dating in archaeology, anthropology, and geoarchaeology: an overview, I Liritzis, AK Singhvi, JK Feathers, GA Wagner, A Kadereit, N Zacharias, ... Springer 2013, 125 citations

Books

- *Orphanidi, L and Liritzis, I (2005) Introduction in Museology & Preventive Conservation. (1st Ed. By University of the Aegean, Dept of Mediterranean Studies, Rhodes, with extended summaries per chapter in English & Arabic), 2nd Ed. Increased & Improved, 2006, and 3rd Ed. Increased, 2013, by Institute de Livre, A.Kardamitsa, Athens.*
- *Liritzis, I (2007) Physical Sciences in Archaeology, G.Dardanos Typothito Publisher, 1st Ed. 2005, 2nd Edition Improved, 2007, 703 p.*
- *Liritzis, I, Singhvi, A.K, Feathers, J.K, Wagner, G.A, Kadereit, A, Zacharias, N, and Li, S-H (2013) Luminescence Dating in Archaeology, Anthropology and Geoarchaeology: An Overview. SpringerBriefs, Earth System Sciences (<http://link.springer.com/content/pdf/10.1007/978-3-319-00170-8.pdf>)*

Editor in Chief

- *Mediterranean Archaeology & Archaeometry (Editor-in-Chief (www.rhodes.aegean.gr/maa\_journal) (Founder and Editor in Chief since 1999- ). It runs through eight editors and from an International experts Editorial Board (Scopus & WoS)*
- *SCIENTIFIC CULTURE indexed in Scopus (www.scicult.com)(Founder, 2015- )*
- *Proceedings of the European Academy of Sciences & Arts (www.peasa.eu) (Cofounder, 2022- )*
- *HERANCA journal on History, Culture, Arts etc (Scopus & WoS) (<https://revistaheranca.com/index.php/heranca/Editorial-Board>; 2024- )*