



## The AHP University Grouping Conducts Scientific Study on Natural Hydrogen

Port Louis (Mauritius), Ado Ekiti (Nigeria), Nairobi (Kenya), Manchester (UK), Genoa (Italy) - 24 April 2024

The African Hydrogen Partnership (AHP) is delighted to announce that the AHP University Grouping conducts a scientific literature review on Natural Hydrogen. The study is a collaborative effort of Afe Babalola University, Ado-Ekiti (ABUAD | Nigeria), University of Nairobi (UoN | Kenya), Manchester Metropolitan University (Manchester Met | UK), University of Genoa (UniGe | Italy) and the AHP.

The research project is funded by the AHP.

**Prof Bamidele Adebisi (AHP Director and AHP University Board Member) said,**

“Excited to spearhead this collaborative research work alongside experts from African and European universities. Natural hydrogen is a potentially transformative force in Africa's pursuit of energy access, through clean and affordable energy sources. In many parts of Africa, access to reliable energy remains a significant challenge, hindering economic development and perpetuating poverty. The scalability and versatility of natural hydrogen make it an ideal candidate for addressing diverse energy needs across Africa. By fostering collaboration and leveraging our collective expertise, we can pave the way for a brighter, more sustainable future, where energy access is no longer a luxury but a fundamental right for all.”

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**Prof Sunday Adeniran Afolalu (Professor of Mechanical Engineering and Director of Hydrogen Research Institute, Afe Babalola University Ado-Ekiti, Nigeria (ABUAD) | Visiting Professor at University of Johannesburg South Africa) said,**

“There is considerable excitement in the natural hydrogen community and beyond: the hypothesis that natural hydrogen can be found in nature, today is undisputed, with seeps being confirmed all over the world; Congratulations as Natural Hydrogen rules the world”

**Dr Yinka Ajiboye [Associate Professor of Radiation and Health Physics at the Department of Mathematical and Physical Sciences, Afe Babalola University Ado-Ekiti, Nigeria (ABUAD)] remarked,**

“We are thrilled to announce our collaboration with the African Hydrogen Partnership to conduct pioneering research on the potential of natural hydrogen, often likened to a modern-day "gold rush." The extraction of natural hydrogen at scale holds immense promise in substantially decreasing the worldwide cost of hydrogen, as it boasts a comparative affordability compared to hydrogen derived from renewable sources or fossil fuels.”

**Dr Josephine Ojiambo (Coordinator the Green Transitions Project, Dept of Chemistry at University of Nairobi | Rotary rep to UNICEF | Former DSG Commonwealth | Former Ambassador to the UN) stated,**

“Africa's geological landscapes hold immense potential for natural hydrogen trapped underground. Driven by climate change and energy security needs, research and development efforts in hydrogen technologies are exponentially growing in academia and industry. We're therefore thrilled to be part of the African Hydrogen Partnership project, an initiative whose collaborative effort will unlock natural hydrogen's potential, propelling Africa's transition to a green economy with clean and sustainable energy.”

**Dr Stefano Barberis [Researcher at University of Genoa | DIME (Thermochemical Power Group)] said,**

“Exploiting this huge hydrogen potential poses relevant technological challenges: in the last few years different start-ups and companies are exploring how to extract natural hydrogen from underground and who will propose the most relevant technological option would somehow win this new “Gold Rush”. As TPG-UNIGE we’re glad to support AHP to understand which are the technological challenges and barriers to untap this natural hydrogen’s potential and how to valorise at this purpose existing technologies.”

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### **About the African Hydrogen Partnership (AHP)**

The **African Hydrogen Partnership (AHP)** is the only continent-wide non-profit African umbrella association dedicated to the development of green and natural hydrogen, hydrogen-based chemicals, fuel cell technology and related business opportunities in Africa. It facilitates collaboration between governments, industry, technology and financial institutions and large-end consumers of hydrogen across regions with a focus on Africa, Europe, the Middle East, Asia and the Commonwealth. The Partnership campaigns and lobbies for green African hydrogen and makes compelling political propositions for the benefit to Africa and other continents of developing green hydrogen economies. The AHP is confident that green and natural African hydrogen will materially assist the world to decarbonise and assist in African hydrogen becoming a major component in the energy mix.

Organizations from anywhere in the world are welcome to join the AHP and become members. Indeed, the involvement of international companies and associations will be of the greatest importance in enabling Africa to capitalize on its huge hydrogen potential.

For more information about the AHP or membership, please visit [www.ahp.africa](http://www.ahp.africa) or contact [info@ahp.africa](mailto:info@ahp.africa).

### **About Afe Babalola University, Ado-Ekiti (ABUAD)**

Established in 2010, **ABUAD** is a private university located in Ado-Ekiti, Ekiti State, Nigeria. The university is a result-oriented institution for producing highly skilled and socially relevant graduates capable of applying scientific knowledge for the resolution of social and technological problems. ABUAD is equally committed to transforming students into expert thinkers, innovative managers and resourceful technocrats in all fields of learning. The university's mandate is to pioneer total excellence along the parameters of teaching, research, performance, sports, community impact and scholarship. The university offers academic programs in six Colleges including: (i) Sciences, (ii) Law, (iii) Engineering, (iv) Social and Management Sciences, (v) Medicine and Health Sciences, and (vi) Pharmacy. ABUAD holds a reputation for being one of the leading academic institutions of Nigeria and West Africa.

For more information, please visit [www.abuad.edu.ng](http://www.abuad.edu.ng)

### **About University of Nairobi (UoN)**

The **University of Nairobi (UoN)** is a leading institution of higher learning within Africa. It has secured a number one ranking in Kenya and eighth across Africa (based on Edurank 2024 rankings). It is firmly committed to delivering high-quality education that addresses the aspirations of both the Kenyan people and the broader global community.

This commitment is realized through a focus on four fundamental pillars: teaching, research, innovation, and community service. Extending beyond its excellence in teaching, UoN is renowned to foster a strong vibrant research culture that is recognized for its impact and relevance to the African region and beyond.

To cater to a diverse range of student interests and career aspirations, UoN offers a comprehensive selection of academic programs. The clusters of disciplines offered at UoN include Agriculture, Arts and Social Sciences, Built Environment and Design, Business and Management Science, Education, Engineering, Law, Health Sciences, Science and Technology, and Veterinary Medicine.

For more information, please visit <https://www.uonbi.ac.ke>

### **About University of Genoa (UniGe)**

The **University of Genoa**, known also with the acronym UniGe (Italian: Università di Genova), is a public research university. It is one of the largest universities in Italy and it is located in the city of Genoa. The original university was founded in 1481.

UniGe is one of the most renowned comprehensive, multidisciplinary, public universities in Italy, with peaks of excellence in several scientific, technological, and cultural domains. UniGe is officially recognized as one of the leading universities in all matters related to the blue economy, with more than 400 worldwide experts in the sea habitat and sustainable exploitation.

As a comprehensive university, research activities span various scientific, technological, and cultural branches. This is done in strong synergy with important local, national and international research institutions, world-renowned hospitals, and the results of research activities are exploited via a sustained interaction with the Industry, leading to the establishment of startup companies spun out from research activities and the filling of international patents.

For more information, please visit <https://unige.it/>

### **About Manchester Metropolitan University (Manchester Met)**

**Manchester Metropolitan University (Manchester Met)** has over 40,000 students and over 4,000 members of staff making it one of the largest universities in the UK.

Manchester Met harnesses its creativity and confidence to enrich its student's lives, raise the impact of its excellent education and research, and project its application to Manchester and the world. Manchester Met anticipates emerging opportunities and challenges and acts on them; innovating to achieve real-world results and embracing change in teaching and learning as well as through the university's research.

Manchester Met research is focused on five world-transforming missions (tackling inequalities, championing creative excellence, leading sustainability, transforming health and driving economic growth). Each is committed to advancing understanding of the pressing problems facing our planet and global society. The five research missions drive a better understanding of the world around us, advancing knowledge and delivering new insights working with policymakers, industry, businesses and wider society.

For more information, please visit <https://www.mmu.ac.uk/>