



SIPS 2023, in Honor of Nobel Laureate, Prof. M Stanley Whittingham

2023 SIPS

Covering Sustainability Pillars :

- Science, Technology & Industry
- Governance & Management
- Education & Civil Society

Prof. M Stanley Whittingham

Nov 27 - Dec 1, 2023, Hyatt's Dreams Playa Bonita, Panama

# 8<sup>th</sup> International Symposium on Sustainable Base-metal Bio-extraction

**The Symposium is being held under the umbrella of SIPS 2023 covering the following topics:**

- Fundamental aspects of bio-hydrometallurgy;
- Industrial bio-hydrometallurgy (studies, practical aspects and operation);
- Bio-extraction of nutrients out of agro-minerals;
- Microbial ecology and bio-prospecting in natural environments and mining;
- Molecular Genetics and biochemistry of microorganisms
- Biohydrometallurgy as a strategy for remediating contaminated sites;
- Bio-extraction of phosphorus out of iron ores;

**Scan for Complete Scope & Important Deadlines**



**Featuring many Nobel Laureates:**



Dan Shechtman  
2011 - Chemistry



Stanley Whittingham  
2019 - Chemistry



Joachim Frank  
2017 - Chemistry



Barry Marshall  
2005 - Medicine



Aaron Ciechanover  
2004 - Chemistry



Avram Hershko  
2004 - Chemistry



Kurt Wüthrich  
2002 - Chemistry



Ferid Murad  
1998 - Medicine  
(Passed away on the  
4th of Sept. 2023)



Rudy A. Marcus  
1992 - Chemistry

**Special Address:**



Luis Echegoyen  
2020 President  
American Chemical  
Society



Donna J. Nelson  
2016 President  
American Chemical  
Society



Subra Suresh  
President, Global  
Learning Council  
Switzerland  
Former Director  
NSF, USA



Nektarios Tavernarakis  
Chair, EIT Governing Board  
President, FORTH

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