

Our world is changing and becoming increasingly complex. Today's dynamism requires timely and innovative solutions to overcome the challenges of tomorrow. Welcome to the Journal of Science Policy & Governance, a publication dedicated toward identifying emerging challenges and exploring novel solutions. All of the articles are authored by students and young scholars, who provide a unique and often undervalued voice in policy debates.

Our inaugural issue addresses a myriad of complex issues that lie at the intersection of science, technology, governance, and policy. The Journal seeks to identify problems that are grounded in an empirical and analytical framework while providing recommendations that account for the values of stakeholders. What follows is a brief overview of the questions and solutions that are addressed in our inaugural issue.

What should the role of the research university be in the 21<sup>st</sup> century? How should universities engage with the private sector in a socially responsible way? Michael Mendez addresses these pressing questions and provides timely recommendations.

How can the federal government foster multidisciplinary research at universities? Should the facilities and administration cost formula be adjusted to optimize scientific productivity? Firas Said Midani discusses the history of cost recovery and the implications of new policies on research universities.

Around the world, other nations are rapidly scaling up their investments into science, technology, and education. China, in particular, is making unprecedented investments into nanotechnology research at a time when US policymakers are increasingly concerned about falling behind. Li Tang and co-authors examine this issue with a look at Chinese and US publications in the field of Nano Environmental Health and Safety research.

Our world is facing significant environmental challenges caused by climate change. As a consequence, the oceans are becoming increasingly acidified which will affect humans and marine life. How should we adapt to ocean acidification and how will it impact our environment? Aaron Ray provides insight and recommendations for addressing this challenge in *Adaptive Policy Approaches to Ocean Acidification*.

The rapid growth of cities and urbanization in the 20<sup>th</sup> century has placed increased strain on groundwater resources. With urban populations continuing to increase, cities will need to develop innovative methods for meeting demand while ensuring sustainable growth. Trisha Lowe and Matt Wenham provide novel approaches for groundwater management in South Florida – a case study which could be instructive to cities around the world.

Health is an increasingly complex and pervasive issue that affects everyone. New treatments hold the promise for longer and healthier lives, but governments must balance innovation, patient safety, and inclusiveness for clinical trials. Are regulatory agencies doing enough to ensure clinical trials are sufficiently representative? Kara Calhoun discusses current policies and provides recommendations in *Diversity in Clinical Trials*.

Healthcare costs are rapidly rising in the US while health challenges continue to emerge. Nuclear medicine is crucial in the diagnosis and treatment of an array of disorders that affect patients around the world. However, the US is facing a shortage of a critical isotope, depriving patients of treatment and driving up medical costs. Ross Barnowski explores this emerging issue and provides timely solutions in *Insourcing Nuclear Medicine*.

The first issue of the Journal of Science Policy & Governance addresses a host of challenges that cross a variety of disciplines. Each piece outlines a significant issue facing our world, while providing realistic policy recommendations that can advance decision making and bring us closer to viable solutions. We hope you enjoy our inaugural issue and welcome your feedback.

- The Editors

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