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Essment Of Future Scientific Needs

Fewer than half of the respondents (46 per cent) who took part in The Evolution of Science Education survey by Oxford University Press believe that the science curriculum in their country prepares chi ...

The majority of teachers and educators do not believe science education is fit for the future: OUP Global Survey Pronged Campaign Against Climate Change With MIGHTR, MIT PhD student W. Robb Stewart aims to speed construction of new nuclear plants to help decarbonize the economy. If nuclear energy is to play a ...

MIGHTR: Speeding Construction of New Nuclear Plants to Help Decarbonize the Economy

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"The selection of the Voyage 2050 themes is a pivotal moment for ESA's science program, and for the future generation ... carried out an initial assessment of the themes and reported their ...

Voyage 2050 sets sail: ESA chooses future science mission themes

As climate change continues to alter the temperature and chemistry of the ocean, new approaches and pathways are needed for governments to manage ocean fisheries, a publication in the ICES Journal of ...

In the Face of Climate Change, New Policy Approaches Needed for Managing Fisheries

Initially the study was designed as an internal working paper in order to implement the measures in the project " Media and Science in the MENA Region " according to the needs of the future participants ...

Assessment of needs within the framework of the project " Media and Science in the MENA Region "

Genetic testing with IVF is being marketed as a means to choose a healthy embryo, despite questions about the soundness of the technology ...

A New Era of Designer Babies May Be Based on Overhyped Science

Eli Lilly and Company (NYSE: LLY) and Banner Alzheimer ' s Institute today announced a strategic research collaboration as part of the planned Phase 3, randomized, placebo-controlled study evaluating ...

Lilly and Banner Alzheimer ' s Institute collaborate on planned Phase 3 prevention trial of donanemab

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With Solos, Amazon stoops to a condescending science fiction that 's just like us, farts and all. As in Electric Dreams, each episode is self-contained, but the show squanders any advantage that format ...

The Futuristic Stink of Amazon 's Science Fiction

Some Marion County schools earned the lowest passing rates on the state 's latest standardized test. And long-standing achievement gaps for low-income students and Black students at some Indianapolis ...

ILEARN Scores Point To Years Of Recovery For Marion County Students

Red Light Holland Corp. (CSE: TRIP) (FSE: 4YX) (OTC Pink: TRUFF) ("Red Light Holland" or the "Company"), an Ontario-based corporation engaged in the production, growth and sale of a premium brand of ...

Psychedelic Stock News: Red Light Holland (CSE: TRIP) Expected Merger Partner Creso Pharma Completes Acquisition of Halucenex Life Sciences Inc

The world of data science is awash in open source ... Superior ease and productivity: This is the future Wang envisions for the popular Python programming language. Although Excel has succeeded ...

Excel, Python, and the future of data science

The school would host three degree programs, all in computing: A Bachelor 's of Science, a Masters and a PhD. But undergraduate students in all disciplines would be expected to take ...

UW trustees approve draft proposal for school of computing

But of course, SciTech is neither. It 's a beloved small

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nonprofit. A children ' s museum that ' s had its share of ups and downs in the 30-plus years since it was founded but was certainly finding its ...

Column: SciTech officials ready to move on toward reopening in wake of controversy

Airport Security The report published on the Global Airport Security Market Research Report Covers Future Trends Size Share Past Present Data and Deep Analysis And Forecast 2021 2027 market by Zion ...

Global Airport Security Market Future Prospects 2027 | L-3 Security & Detection, Safran Morpho, Smiths Detection, American Science & Engineering

A new research market study report titled Global Gamma Counter Market 2021 by Manufacturers, Regions, Type and Application, Forecast to 2026 has been featured by MarketQuest.biz. The report delivers ...

Global Gamma Counter Market 2021 Future Investment Opportunity: Thermo Scientific, Beckman, Packard, Perkin Elmer

On June 22, 2021, iFLYTEK celebrated its 22 nd birthday and commemorated the occasion by extending its gratitude to the community. This pandemic highlighted the positive benefits of adopting ...

Liu Qingfeng: iFLYTEK Sails Towards a Bright Future with Scientific Spirit

The patent covers a unique approach to applying human-induced Pluripotent Stem Cells (iPSCs) as a powerful tool to illuminate the biology of complex human cell types such as those of the central ...

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Vyant Bio Announces Issuance of Key Patent for High-Throughput Optical Assay of Human Mixed ...

Amgen (NASDAQ:AMGN), in partnership with the International Federation of Psoriasis Associations (IFPA), announced the launch of the Understanding Psoriatic Disease Leveraging Insights for Treatment ...

Amgen And The International Federation of Psoriasis Associations Launch UPLIFT Innovation Challenge

"Florida's fisheries are in good shape, but the long term prognosis is not good because there are nutrient issues," said Tim MacDonald, FWC biologist.

Snook: Water quality, habitat are key issues impacting future of popular Florida gamefish

Only 31 per cent of teachers surveyed believe that science education in their country is fit for the future, according to a report published by Oxford University Press, the world 's largest university ...

In 1980, the World Health Organization (WHO) officially declared that smallpox had been eradicated. In 1986, WHO's international Ad Hoc Committee on Orthopox Virus Infections unanimously recommended destruction of the two remaining official stocks of variola virus, one at the Centers for Disease Control and Prevention and the other at the VECTOR laboratory in Siberia. In June 1999, WHO decided to delay the destruction of these stocks. Informing that decision was Assessment of Future Scientific Needs for Variola Virus, which examines: -- Whether the sequenced variola genome, vaccinia, and monkey pox virus are adequate for future research or whether the live variola

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virus itself is needed to assist in the development of antiviral therapies. -- What further benefits, if any, would likely be gained through the use of variola in research and development efforts related to agent detection, diagnosis, prevention, and treatment. -- What unique potential benefits, if any, the study of variola would have in increasing our fundamental understanding of the biology, host-agent interactions, pathogenesis, and immune mechanisms of viral diseases.

Smallpox was a devastating disease that decimated human populations for centuries, and its eradication in 1980 was a monumental achievement for the global health community. Since then the remaining known strains of its causative agent, variola virus, have been contained in two World Health Organization (WHO)-approved repositories. In 1999, the World Health Assembly (WHA) debated the issue of destroying these remaining strains. Arguments were presented on the need to retain the live virus for use in additional important research, and the decision to destroy the virus was deferred until this research could be completed. In that same year, the Institute of Medicine (IOM) convened a consensus committee to explore scientific needs for the live virus. In the ten years since the first IOM report, the scientific, political, and regulatory environments have changed. In this new climate, the IOM was once again tasked to consider scientific needs for live variola virus. The committee evaluated the scientific need for live variola virus in four areas: development of therapeutics, development of vaccines, genomic analysis, and discovery research.

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Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

"The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -Global Trends 2040 (2021) *Global Trends 2040-A More Contested World* (2021),

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released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.

The Future of Nursing explores how nurses' roles, responsibilities, and education should change significantly to meet the increased demand for care that will be created by health care reform and to advance improvements in America's increasingly complex health system. At more than 3 million in number, nurses make up the single largest segment of the health care work force. They also spend the greatest amount of time in delivering patient care as a profession. Nurses therefore have valuable insights and unique abilities to contribute as partners with other health care professionals in improving the quality and safety of care as envisioned in the Affordable Care Act (ACA) enacted this year. Nurses should be fully engaged with other health professionals and assume leadership roles in redesigning care in the United States. To ensure its members are well-prepared, the profession should institute residency training

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for nurses, increase the percentage of nurses who attain a bachelor's degree to 80 percent by 2020, and double the number who pursue doctorates. Furthermore, regulatory and institutional obstacles -- including limits on nurses' scope of practice -- should be removed so that the health system can reap the full benefit of nurses' training, skills, and knowledge in patient care. In this book, the Institute of Medicine makes recommendations for an action-oriented blueprint for the future of nursing.

Climate change poses many challenges that affect society and the natural world. With these challenges, however, come opportunities to respond. By taking steps to adapt to and mitigate climate change, the risks to society and the impacts of continued climate change can be lessened. The National Climate Assessment, coordinated by the U.S. Global Change Research Program, is a mandated report intended to inform response decisions. Required to be developed every four years, these reports provide the most comprehensive and up-to-date evaluation of climate change impacts available for the United States, making them a unique and important climate change document. The draft Fourth National Climate Assessment (NCA4) report reviewed here addresses a wide range of topics of high importance to the United States and society more broadly, extending from human health and community well-being, to the built environment, to businesses and economies, to ecosystems and natural resources. This report evaluates the draft NCA4 to determine if it meets the requirements of the federal mandate, whether it provides accurate information grounded in the scientific literature, and whether it effectively communicates climate science, impacts, and responses for general audiences including the public, decision makers, and other stakeholders.

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Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments—assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning. *Knowing What Students Know* essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment—what students know and how well they know it—as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored. With the promise of a productive

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research-based approach to assessment of student learning, Knowing What Students Know will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.

A Strategy for Assessing Science offers strategic advice on the perennial issue of assessing rates of progress in different scientific fields. It considers available knowledge about how science makes progress and examines a range of decision-making strategies for addressing key science policy concerns. These include avoiding undue conservatism that may arise from the influence of established disciplines; achieving rational, high-quality, accountable, and transparent decision processes; and establishing an appropriate balance of influence between scientific communities and agency science managers. A Strategy for Assessing Science identifies principles for setting priorities and specific recommendations for the context of behavioral and social research on aging.

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