



LUMS

Gad and Birgit
Rausing Library

Monthly



Bulletin

No. 45 Apr 2023

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News Corner

LUMS Congratulates Dr. Adil Najam, Former Vice Chancellor, LUMS, and Professor Kamal Munir, Former Dean, MGSHSS, on Making a Mark on National and International Fronts

The LUMS community is immensely proud to announce that Dr. Adil Najam, Former Vice Chancellor, LUMS, (2011-2013) has been named the new President of WWF-International while Professor Kamal Munir, Former Dean, Mushtaq Ahmad Gurmani School of Humanities and Social Sciences (2015-16) has been awarded the *Tamgha-e-Imtiaz*, in recognition of his outstanding contributions to the field of education. Policy expert and academic, Dr. Adil Najam is Dean Emeritus of the Frederick S. Pardee School of Global Studies at Boston University and Professor of International Relations and of Earth and Environment. He has also taught at Boston University, MIT, University of Massachusetts and the Fletcher School of Law and Diplomacy, Tufts University.

Dr. Najam is a 2009 Sitara-e-Imtiaz recipient. He has been at the forefront of inspiring change. He co-authored the Third and Fourth Assessments of the Intergovernmental Panel on Climate Change (IPCC), for which the scientific panel was awarded the 2007 Nobel Peace Prize for advancing the public understanding of climate change science. Meanwhile, Dr. Najam has also served on policy making positions including the UN Committee on Development and the Advisory Board for the 2011 Human Development Report of the UNDP.

[Read More](#)

Alumni Gather in the Heart of London, Raise Funds for LUMS National Outreach Programme

LUMS Alumni residing in UK, gathered for a fun-filled and rewarding afternoon on March 18, 2023. It was a reunion organised in the heart of London, allowing the UK Alumni chapter to interact and, come together to contribute to the LUMS National Outreach Programme (NOP) fund through a charity raffle. Vice Chancellor, LUMS, Dr. Arshad Ahmad, and Ms. Nuzhat Kamran, Director, Office of Advancement, LUMS also flew from Lahore to be a part of this event.

The afternoon began with a warm welcome note delivered by Mr. Ahmed Salman Tariq (BS 2011), Vice President, UK Alumni Chapter, and a key organiser of the event. After the LUMS round-up video was played, the Vice Chancellor was invited to say a few words about the importance of get-togethers like this outside of Pakistan and the role that alumni play in highlighting the LUMS community and its achievements. He also took the opportunity to discuss the multiple strategic actions that LUMS has taken to combat climate change. [Read More](#)

LUMS and US Apparel Discuss Ways to Foster Collaboration on Sustainability

Representatives from US Apparel Mr. Siddique Bhatti, Director US Group; Mr. Salman Hafeez Malik, CEO US Apparel; Mr. Awais Tariq, Director US Apparel and Mr. Mustafa Ahmed, Head of Sustainability, discussed ways to foster collaboration on sustainability with a delegation from LUMS on April 11, 2023.

Representing LUMS were Dr. Sabieh Anwar, Ahmad Dawood Chair and Dean, Syed Babar Ali School of Science and Engineering (SBASSE), Dr. Tauqeer Abbas, Associate Professor Chemical Engineering, Ms. Nuzhat Kamran, Director Advancement and Mr. Anas Ashraf Ali, Head of Development, Office of Advancement.

Dr. Anwar provided an overview of SBASSE, and its research projects and highlighted the School's commitment to promoting sustainability and innovation in research and education. The discussion focused on the issue of water conservation, with US Apparel sharing their

current practices and achievements in this area. It has reduced its water usage by 31%, with a goal of achieving 100% reduction by 2050. Dr. Abbas suggested some ideas that US Apparel could implement to achieve this goal. He also briefed the attendees on the proposed Water Quality Lab at LUMS that will be equipped with state-of-the-art technology. [Read More](#)

Archives Preserving the History of Women in Pakistan to be Housed at LUMS

LUMS is honoured to announce a generous donation by the Applied Socio-Economic Resource Centre and Institute of Women's Studies, Lahore (ASR/IWSL), a non-profit, non-government institute and resource centre for teaching, training, research, and publication in the discipline of Women's Studies working towards social transformation. Led by Executive Director, Ms. Nighat Said Khan, ASR/IWSL has donated its research archives, including video and audio cassettes, documentaries, news clippings as well as digital archives, to the University.

Ms. Khan is a prominent activist and academic and has worked for decades to create awareness about gender issues and social welfare in Pakistan. The 'ASR/Nighat Said Khan Archival Collection', to be housed at the Saida Waheed Gender Initiative (SWGI) at LUMS, will be dedicated to preserving and expanding the history of women and other marginalised communities in Pakistan.

This agreement was formalised at an MoU signing ceremony between Ms. Khan and Dr. Arshad Ahmad, Vice Chancellor, LUMS. Also in attendance were Mr. Osman Khalid Waheed, Member, Board of Trustees; Dr. Ali Khan, Dean, Mushtaq Ahmad Gurmani School of Humanities and Social Sciences, LUMS, and Dr. Shayan Rajani, Director, SWGI. [Read More](#)

Faisal Sattar, LUMS alum, Selected for First Global Cohort of McCall MacBain Scholars

Meet Faisal Sattar (BA-LL.B '18), an ambitious LUMS graduate with an extraordinary story. His journey started in Basra Jala, Shakargarh, a remote village in the north-eastern Punjab with only one primary school for boys. This fall, he will begin his LL.M degree at McGill University, where he has been selected from thousands of applicants around the world for the prestigious McCall MacBain scholarship.

For Faisal, a newspaper clipping became the turning point of his life. When he was in ninth grade, his brother saw an advert for the LUMS National Outreach Programme (NOP) in a local publication. The ad stated that successful candidates would be offered full financial assistance – including tuition, stipend, books, and lodging - to pursue undergraduate studies at LUMS. He cut out the ad for Faisal and said, “You must apply for this scholarship when the time comes, no matter what”. Given their family’s distressed financial background, a fully funded scholarship would be the only way to pursue quality education. [Read More](#)

Mahmood Group to Sponsor a National Outreach Programme Scholar at LUMS

Mahmood Group has committed to sponsoring one National Outreach Programme (NOP) scholar at LUMS. The Group’s partnership with LUMS was formalised at an MoU signing ceremony held on April 10, 2023, where Dr. Arshad Ahmad, Vice Chancellor, LUMS, and Mr. Anees Khawaja, CEO, Mahmood Group signed the agreement. Ms. Kehkeshan Usman, Head of Business Affairs and Sustainability, Mahmood Group, was also present at the ceremony. Representing LUMS were Mr. Shahid Hussain, Rector; Dr. Muhammad Sabieh Anwar, Ahmad Dawood Chair and Dean, Syed Babar Ali School of Science and Engineering; Dr. Tauqeer Abbas, Associate Professor, Chemical Engineering and Ms. Nuzhat Kamran, Director, Office of Advancement.

The Mahmood Group is a conglomerate that was founded in 1935 and has served various industries and verticals with a diverse portfolio over the last 86 years. The Group is the 10th largest exporter of Pakistan with a presence in over 70 countries. Apart from textiles, it has also catered to industries like hospitality, leather, food, energy, trading, and real estate. [Read More](#)

LUMS Alum Appointed Minister of Agriculture of Azerbaijan

Following a presidential order, LUMS alum, Majnun Mammadov (MBA 2006) has been announced as the new Minister of Agriculture for the Republic of Azerbaijan.

Mammadov aims to achieve a sustainable transformation of the country's agri-food systems, improve farmers' agricultural know-how, as well as increase the contribution of agriculture to the economy.

Before joining LUMS in 2004 for his MBA, Mammadov held a Bachelors degree from Azerbaijan State University of Economics. He is currently pursuing an Executive MBA in Food and Agribusiness, a joint programme of Wageningen University & Research and TIAS School for Business and Society, Netherlands.

At LUMS, Mammadov took an active part in the LUMS Entrepreneurship Society, the LUMS Adventure Society, and the LUMS Travelers' Society. [Read More](#)

INDEXING OF NEWSPAPERS

Agricultural General:

- Engro Fertilizers Limited. BR, 01st Feb 2023.
- NBP launches new agri loan programme. BR, 15th April 2023.
- HRW criticises high-handedness of Ruda for evicting farmers. Daily Dawn, 11th April 2023.
- Opting for local edible oil alternatives. Daily Dawn, 17th April 2023.
- Farmers vow to launch movement against Ruda. Daily Dawn, 18th April 2023.
- Tobacco industry witnesses sharp increase in smuggling of cigarettes due to tax hike. The Nation, 13th April 2023.
- Govt to extend all supports for agriculture development. The Nation, 17th April 2023.
- IRRRI promoting regional coop to increase rice production. The Nation, 18th April 2022.
- Chinese importers eyeing recovery of Pakistani sesame seed production. The Nation, 29th April 2023.
- Aeroponic farming to revolutionise potato sector. The Nation, 30th April 2023.
- ZTBL, SDPI to share latest advancements in agriculture with small farmers. The Nation, 30th April 2023.
- Reviving agricultural growth. The News, 14th April 2023.
- Wheat procurement drive gathers pace in Punjab as harvest exceeds expectations. The News, 19th April 2023.
- Reviving agricultural growth. The News, 21st April 2023.
- Competing crops push cotton out as govt misses sowing target. The News, 22nd April 2023.
- Punjab revises wheat buying target to 4.2m tonnes. The News, 26th April 2023.
- Punjab agrees to boost cotton cultivation to 5 million acres. The News, 30th April 2023.

Auto and Allied:

- Auto: Hiding in plain sight. BR, 13th April 2023.
- E-bikes e-rickshaws. BR, 14th April 2023.
- SOP issued to intercept suspected smuggled vehicles. BR, 19th April 2023.
- Federal govt's scheme. BR, 27th April 2023.
- Auto sales plunge 47pc in July-March. Daily Dawn, 12th April 2023.
- Auto parts vendors ask finance minister to relax imports to save industries from total collapse. The Nation, 17th April 2023.
- General Motors lifts 2023 forecast after strong Q1 results. The Nation, 26th April 2023.
- Indus Motor profit falls 62pc on higher cost of production. The News, 27th April 2023.
- Rs500,000 markup-free loan to be given for electric bikes, rickshaws. The News, 27th April 2023.

Cement and Construction:

- Cement sales down 11pc YoY in Jan-March. The News, 13th April 2023.
- Cement sales likely to fall by a quarter in April. The News, 30th April 2023.

Chemical and Pharmaceutical Industry:

- Pharma sector rejects govt's move, demands 40pc hike in drug prices. BR, 29th April 2023.
- ECC gives approval for 20 percent hike in prices of essential drugs. The Nation, 29th April 2023.

Economic Budget, Condition:

- UAE promises \$1bn to get IMF deal on track. BR, 15th April 2023.
- Jul-Mar 2022-23. BR, 20th April 2023.
- Current account surplus points to possible contraction. BR, 21st April 2023.
- Trade and industry warn of unsustainable financial burden. Daily Dawn, 11th April 2023.
- FPCCI asks govt to protect jobs, exports. Daily Dawn, 15th April 2023.
- Economic, political uncertainty worsens poverty outlook. Daily Dawn, 16th April 2023.
- Pak economy witnessing high inflation, external balance of payments pressures. The Nation, 15th April 2023.
- Marketing companies selling LPG at price higher than Ogra determined rate. The Nation, 18th April 2023.
- Excessive govt spending, trade restrictions deepen economic crisis PRIME. The Nation, 20th April 2023.
- FPCCI forecasts negative growth in fiscal year 2023. The News, 15th April 2023.
- Political instability puts 'heavy dent' in economy. The News, 16th April 2023.
- FPCCI says March current account surplus reflects alarming economic contraction. The News, 21st April 2023.

Economic Development, Planning:

- The IMF projections. BR, 18th April 2023.
- United Distributors Pakistan Limited. BR, 20th April 2023.
- Options to address rising inflation. BR, 26th April 2023.
- Pakistan's economy. BR, 26th April 2023.
- The grim challenge of import addiction. BR, 27th April 2023.
- Outlining a charter of the economy. Daily Dawn, 15th April 2023.
- FPCCI BMP says jump in oil rates unfair ahead of Eid as businesses stuck in inflation quagmire. The Nation, 17th April 2023.
- NCC's facilitation to help improve export opportunities for SMEs. The Nation, 21st April 2023.
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- Pakistan eyes enhanced FDI after EU's easing of financial curbs. The Nation, 25th April 2023.
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- Energy imports fall 20pc in July-March FY23. The News, 15th April 2023.
- Rupee set to strengthen on hopes of IMF revival. The News, 16th April 2023.
- FDI falls 23pc to \$1.048 billion in July-March. The News, 20th April 2023.
- Pakistan needs to prioritise digital transformation to boost economy'. The News, 29th April 2023.

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- PAC seeks explanation from Finance Division. BR, 14th April 2023.
- Plan to promote art, cultural activities. Daily Dawn, 08th April 2023.
- FAPUASA concerned at erosion of varsities` autonomy. Daily Dawn, 13th April 2023.
- National curriculum` for secondary, intermediate students approved. Daily Dawn, 13th April 2023.
- Education `reimagining`. Daily Dawn, 14th April 2023.
- Learning loss feared as book shortages hit Khyber Pakhtunkhwa schools. Daily Dawn, 16th April 2023.
- MoU signed for training PU students in life-saving skills. Daily Dawn, 18th April 2023.
- Search panel for posting of PU VC formed. Daily Dawn, 20th April 2023.
- Education in Pakistan problems, challenges and their solution. The Nation, 13th April 2023.
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- NA Body on education to discuss QAU drug, weapons issues in next meeting. The Nation, 13th April 2023.
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- HEC advises students to beware of TNE policy violation by HEIs. The Nation, 18th April 2023.
- Transforming schools. The Nation, 30th April 2023.
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- CM orders making Central Model School a pioneering institution. The Nation, 12th April 2023.
- Milestone as core curriculum signed off by provinces. The News, 14th April 2023.
- Punjab caretaker cabinet approves search committees for VCs. The News, 14th April 2023.
- UVAS, Malaysian varsity to promote academic linkage. The News, 15th April 2023.
- Bill to amend HEC ordinance not to be okayed. The News, 20th April 2023.
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- Govt intends to transfer Central Model School to Daanish Schools. The News, 26th April 2023.
- What ails the HEC. The News, 26th April 2023.
- Textbooks shortage. The News, 29th April 2023.

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- Muzaffargarh solar plant land. BR, 13th April 2023.
- Country to save \$18 bbl on import of Russian crude. BR, 27th April 2023.
- Saudis okay \$240m for Mohmand Dam project. Daily Dawn, 08th April 2023.
- Solar power a ray of hope for Pakistan`s beleaguered energy sector. The Nation, 12th April 2023.
- Foreign oil, gas firms leaving Pakistan, selling their assets. The Nation, 14th April 2023.
- Oil import bill drops by over 11 percent to \$13.08 billion in nine months. The Nation, 19th April 2023.

- Punjab, KP govts to establish four excellence hubs of renewable energy. The Nation, 22nd April 2023.
- Karot Hydropower Project changing lives of local population. The Nation, 25th April 2023.
- Neelum Jhelum Hydropower Project to restart power generation by end of July. The Nation, 25th April 2023.
- CPPA-G seeks Rs1.17 per unit hike in electricity tariff for XWDISCOs. The Nation, 26th April 2023.
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Environment:

- Efforts afoot to help Hindu Kush, Himalaya communities fight climate change. Daily Dawn, 04th April 2023.
- Heavy rains, hailstorms destroyed wheat worth Rs23bn. Daily Dawn, 05th April 2023.
- Overproduction of plastic waste polluting environment. The Nation, 26th April 2023.
- App launched to control environmental pollution. The New, 20th April 2023.
- Plantation drive to be launched in sectors I-14 and I-15. The News, 25th April 2023.
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- E-11 INTERCHANGE CONSTRUCTION. The News, 28th April 2023.
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- Textile group. BR, 19th April 2023.
- New procedure for clearance of export cargoes implemented. BR, 21st April 2023.
- GOC (Pak) Limited. BR, 26th April 2023.
- At-Tahur Limited. BR, 27th April 2023.
- Exports of textiles dip 22.61pc in March. Daily Dawn, 19th April 2023.
- Govt decides to use local, not imported, furnace oil for power generation. The Nation, 12th April 2023.

Information Technology:

- AI concerns in the modern age. The Nation, 21st April 2023.

Industrial Policy and Plan:

- Al Shaheer Corporation Limited. BR, 12th April 2023.
- Amreli Steels Limited. BR, 13th April 2023.
- Future at stake. BR, 16th April 2023.
- Johnsons & Phillips (Pakistan) Limited. BR, 18th April 2023.
- Siddiqsons Tin Plate Limited. 28th April 2023.
- OICCI warns of `mass industrial layoffs. Daily Dawn, 12th April 2023.
- SCCI seeks amendments to re-import and re-export policies. The Nation, 22nd April 2023.
- Challenges plague coastal tourism promotion in Pakistan. The Nation, 27th April 2023.

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- Elections to take place simultaneously in October or November. The Nation, 27th April 2023.

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- NA turns bill into law, much to the displeasure of SC. BR, 22nd April 2023.
- Constitution and right to privacy. BR, 28 April 2023.

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- Hydrogen initiatives. BR, 12th April 2023.
- Govt sets retail price for sugar to tackle soaring rates. The News, 27th April 2023.

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- Businessmen seek govt help to resolve issues of SMSs, cottage industry. The Nation, 20th April 2023.

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- Industrial output falls for eighth straight month. The News, 18th April 2023.

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- Business community asked to explore new trade avenues with Tajikistan. The News, 14th April 2023.

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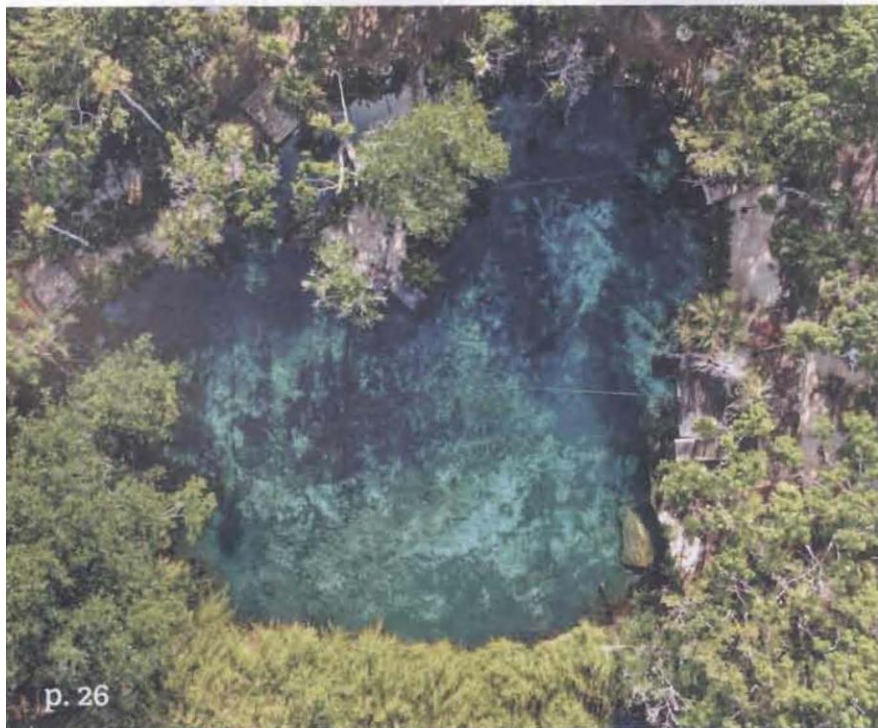
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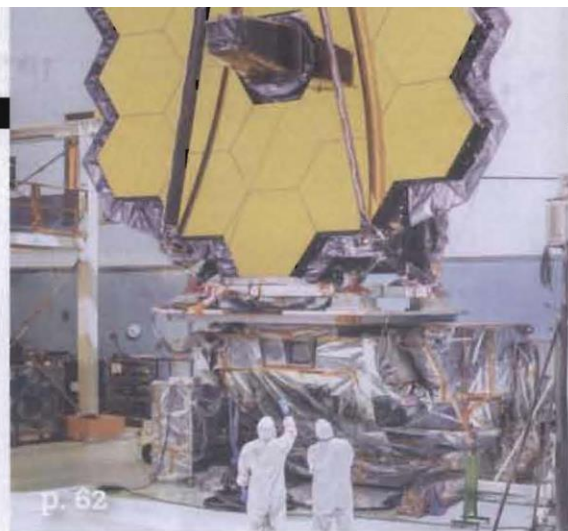
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“Foreign Affairs... will tolerate wide differences of opinion. Its articles will not represent any consensus of beliefs. What is demanded of them is that they shall be competent and well informed, representing honest opinions seriously held and convincingly expressed.... It does not accept responsibility for the views expressed in any article, signed or unsigned, which appear in its pages. What it does accept is the responsibility for giving them a chance to appear there.”

Archibald Cary Coolidge, Founding Editor
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CFO DAILY

The must-read analysis every finance professional needs to get ahead.

MPW NEXT GEN

The Most Powerful Women event convenes leaders of tomorrow's Fortune 500—both rising executives and innovators (May 16–17, San Diego).

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"Once 'hired,' [digital employees] never tire, never complain,
never seek a raise, and always follow company policy."

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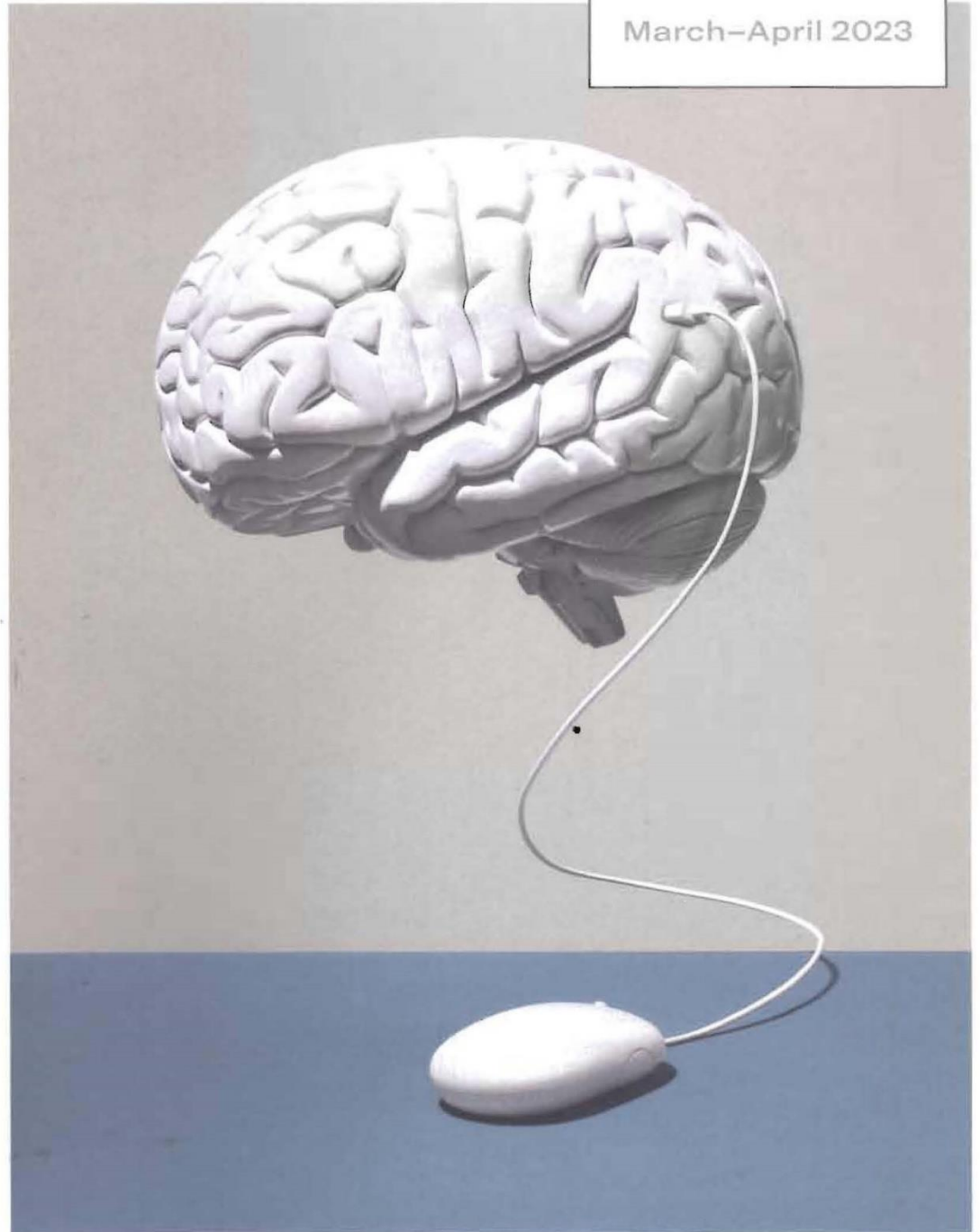
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Patriarchy Is Not Destiny

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**Earth's Exploding,
Shifting Population**

As child mortality has fallen and life expectancy has risen, the number of people on the planet has doubled in less than 50 years. It's a trend that might yet reverse, experts say, depending on variables such as finite resources and a changing climate.

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A Growing Nigeria

Africa's most populous country faces food and employment scarcities.

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They are just about everywhere, but do you really see them?

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There are several ways in which poverty can be alleviated, including government policies, international aid, and corporate social responsibility (CSR). Poverty alleviation is a critical issue in Pakistan, where a significant portion of the population lives below the poverty line. Several approaches can be taken to address poverty in Pakistan, and corporate social responsibility (CSR) can play a crucial role in poverty alleviation efforts. CSR refers to a company's voluntary actions to improve its social and environmental impact. In Pakistan, CSR initiatives can play an important role in poverty alleviation by providing support for education, health, and livelihoods.

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Whether it's pipes, highways, or arteries that are clogged, stopping the flow is always inconvenient and sometimes dangerous.



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32 Malaysian physics and the maker ethos

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40 Accelerating astrophysics with the SpaceX Starship

Martin Elvis, Charles Lawrence, and Sara Seager

By substantially increasing the mass and volume of its reusable transportation system without raising costs, SpaceX may enable NASA to implement future missions years ahead of schedule.



ON THE COVER: Clogging can take place whenever a suspension, made up of discrete objects in a fluid, flows through a confined space. The constriction may be microscopic, like the tiny pores of a filter, or macroscopic, like the narrow road that produced this traffic jam in Kuala Lumpur, Malaysia. To learn about how various clogs can happen and how to mitigate them, turn to the article by Brian Dincau, Emilie Dressaire, and Alban Sauret on **page 24**. (Photograph by Alexandre Roussel/Alamy Stock Photo.)

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ROY KALTSCHMIDT/LBNL

Antineutrino anomaly

Why do nuclear reactors seemingly emit fewer antineutrinos than theory predicts? That question has raised hopes that new physics, such as a sterile neutrino, is responsible. A recent study offers a compelling but more mundane explanation for the anomaly: flaws in the data underpinning theoretical models.

physicstoday.org/Feb2023a



THOMAS ANGLIS/ICL

Q&A: Jessica Wade

"I'm going to be a professor who changes things," says materials scientist Jessica Wade. Through such activities as authoring almost 2000 Wikipedia articles about scientists from underrepresented groups, the Imperial College London research fellow is leading efforts to make physics more inclusive.

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HOLJARD ET AL/INAT PHOTO/2023

Laser lightning rod

In the summer of 2021, four lightning strikes in the Swiss Alps were guided to the ground by a skyward-pointing laser. Directing lightning is the latest application of a serendipitously discovered technique that enables high-intensity laser pulses to create conducting channels in air.

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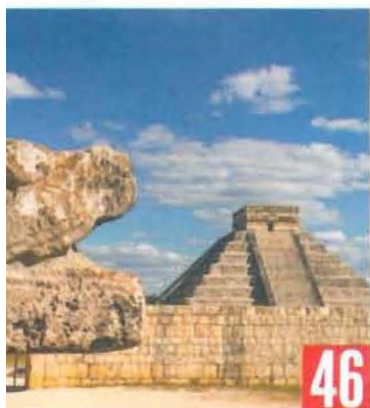
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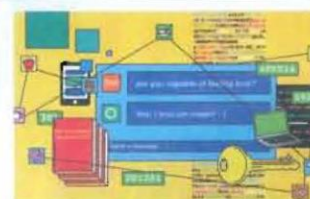
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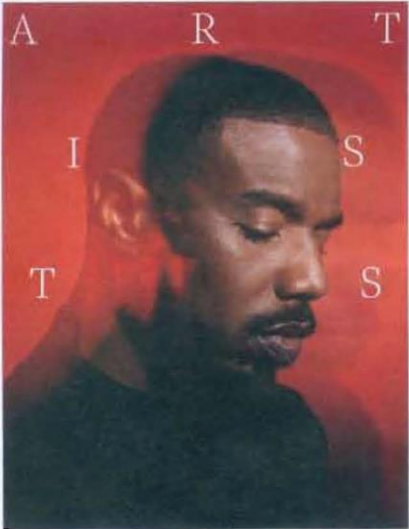
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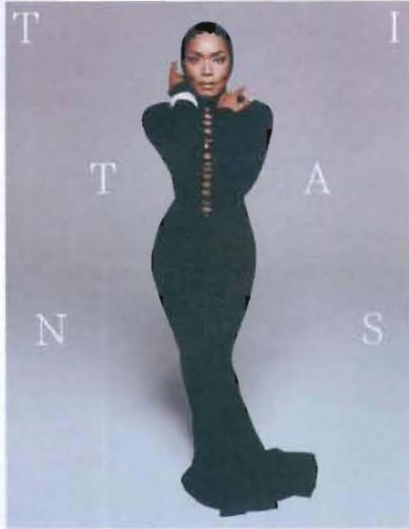
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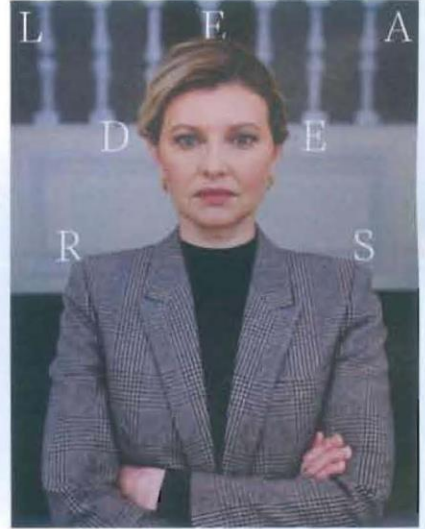
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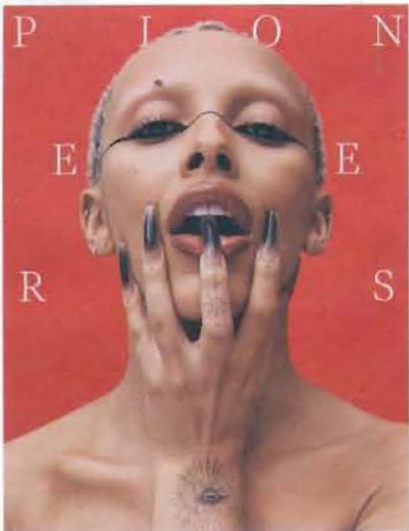


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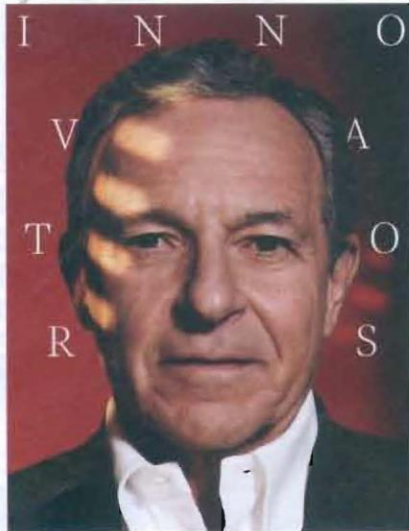


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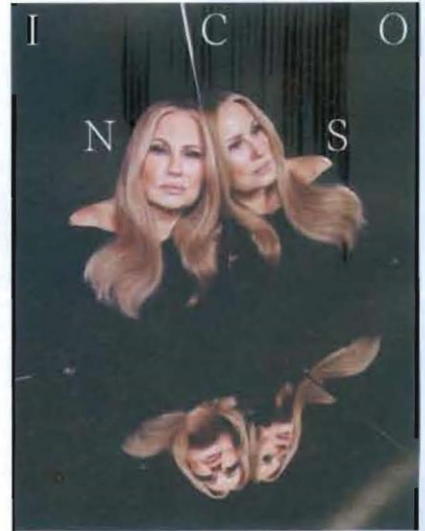
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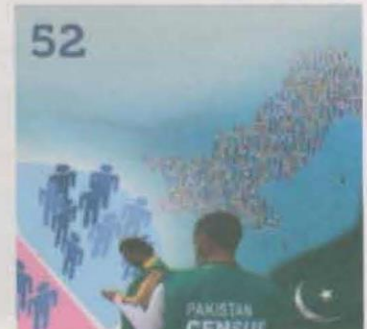


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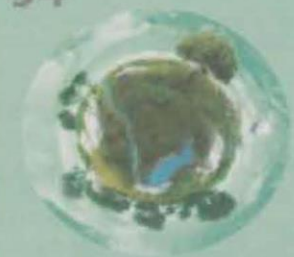


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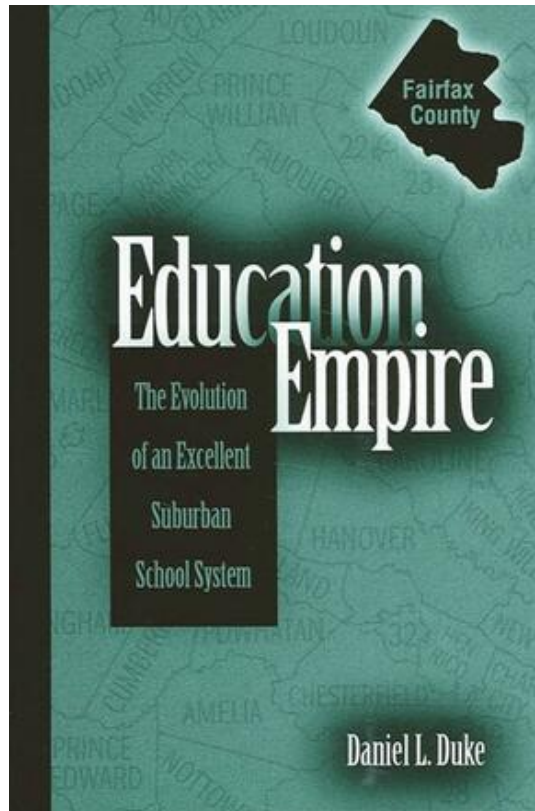
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Overview

Despite the fact that more than one-half of the students in the United States are educated in suburban schools, relatively little is known about the development of suburban school systems. *Education Empire* chronicles the evolution of Virginia's Fairfax County public schools, the twelfth largest school system in the country and arguably one of the very best. The book focuses on how Fairfax has addressed a variety of challenges, beginning with explosive enrollment growth in the 1950s and continuing with desegregation, enrollment decline, economic uncertainty, demands for special programs, and intense politicization. Today, Fairfax, like many suburbs across the country, looks increasingly like an urban school system, with rising poverty, large numbers of recent immigrants, and constant pressure from an assortment of special interest groups. While many school systems facing similar developments have experienced a drop in performance, Fairfax students continue to raise their achievement. Daniel L. Duke reveals the keys to Fairfax's remarkable track record.

Daniel L. Duke is Professor of Educational Leadership and Director of the Thomas Jefferson Center for Educational Design at the University of Virginia. He is the author of many books, including *The Challenges of Educational Change*.

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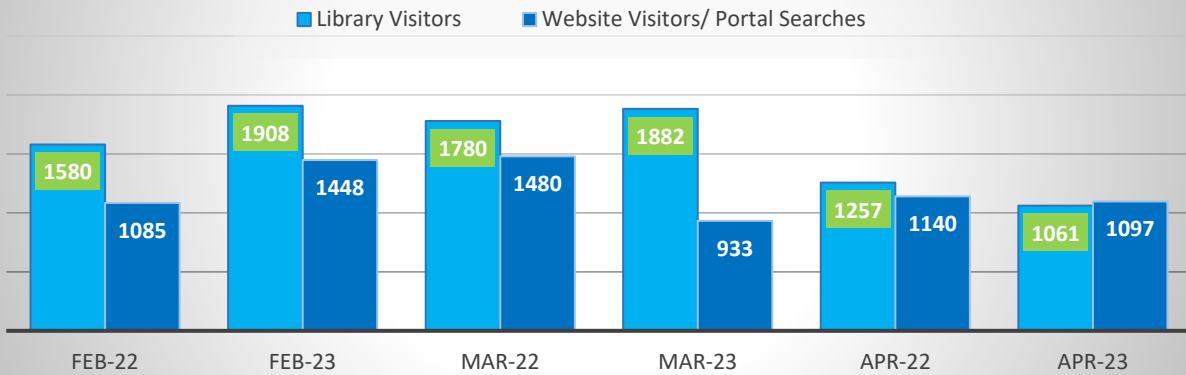
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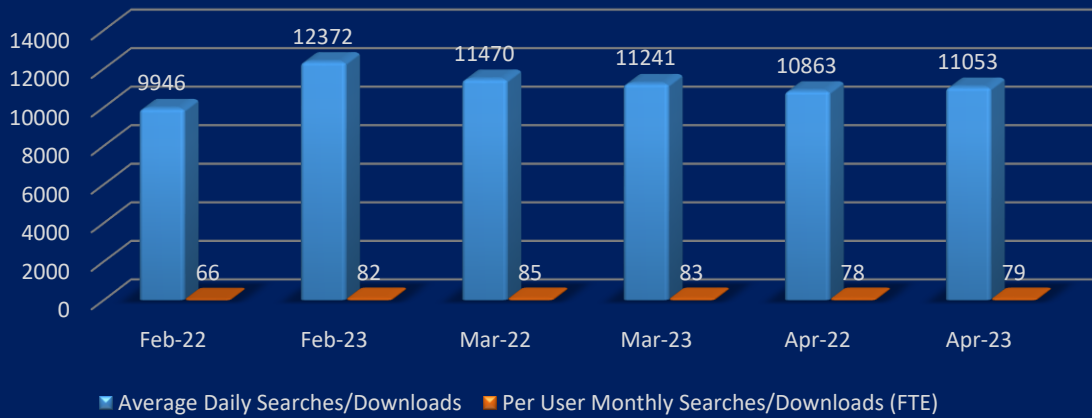
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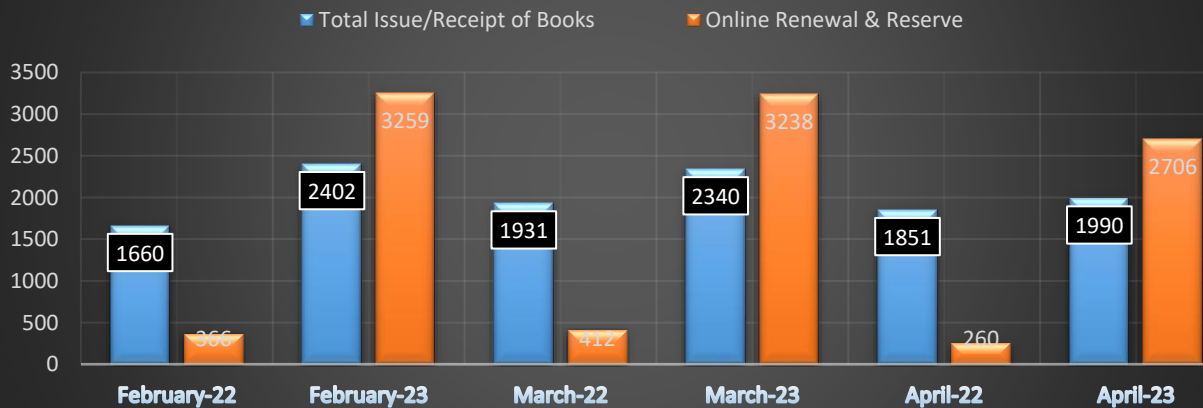
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