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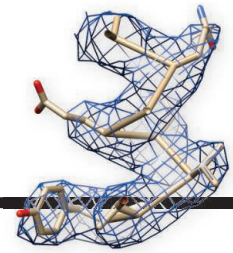

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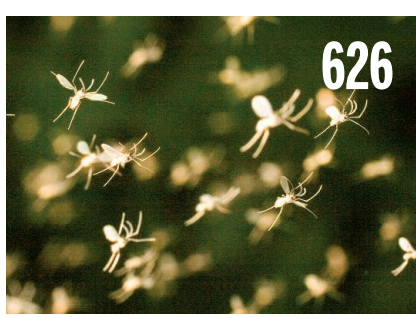

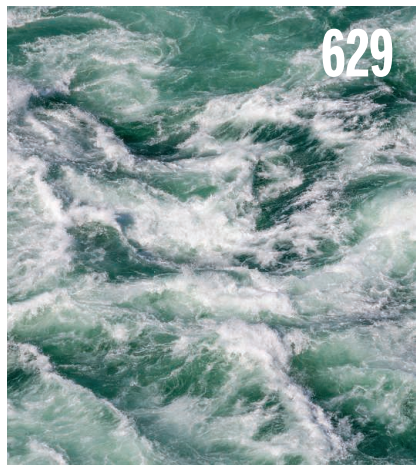

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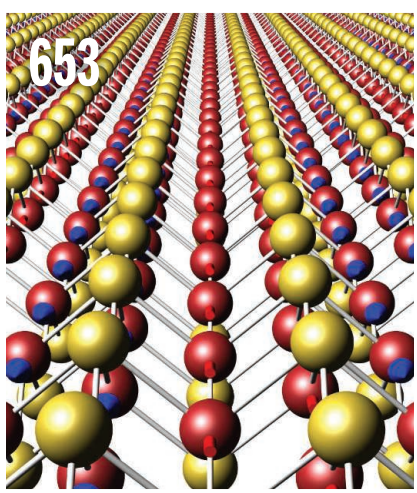

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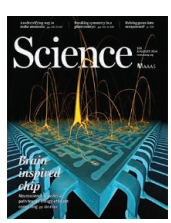

Artist's concept of neurons firing on a computer chip. A neurosynaptic chip (area ~ 4 square centimeters) built using silicon technology can approximate the structure and function of the mammalian brain. The chip and associated software have the potential to transform society by enabling visual, auditory, and multisensory applications for mobile devices, the cloud, and synaptic supercomputers. See pages 614 and 668. *Image: Joe Lertola, Bryan Christie Design*

PHOTO: (MIDDLE) PETER WAHL, UNIVERSITY OF ST. ANDREWS

SCIENCE (ISSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1200 New York Avenue, NW, Washington, DC 20005. Periodicals mail postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Domestic individual membership and subscription (51 issues): $153 ($74 allocated to subscription). Domestic institutional subscription (51 issues): $1282; Foreign postage extra: Mexico, Caribbean (surface mail) $55; other countries (air assist delivery) $85. First class, airmail, student, and emeritus rates on request. Canadian rates with GST available upon request, GST #1254 88122. Publications Mail Agreement Number 1069624. **Printed in the U.S.A.**
Change of address: Allow 4 weeks, giving old and new addresses and 8-digit account number. **Postmaster:** Send change of address to AAAS, P.O. Box 96178, Washington, DC 20090–6178. **Single-copy sales:** $10.00 current issue, $15.00 back issue prepaid includes surface postage; bulk rates on request.

Published by AAAS

Science

345 (6197)

Science **345** (6197), 603-706.