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West Virginia

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GRANT Division of Science and Research

The Governor's STEM Initiative and the West Virginia Office of Education and the Arts are pleased to announce that the **Governor's STEM Initiative Mini-Grant Program** is now accepting applications for Summer 2017. STEM Mini-Grant projects may take place throughout the summer and fall 2017, pending the enactment of the FY 2018 budget bill. This mini-grant program supports STEM (Science, Technology, Engineering, and Math) education projects and programs throughout West Virginia that serve the PreK-12th grade student population and encourages educators (in both school and outside of school settings) to integrate STEM disciplines in their curriculum and educational programming. Through this grant program, applicants may request up to \$3,000 to implement or expand a STEM education project or program. **Applications may be submitted electronically to krista.k.cox@wv.gov by June 5, 2017. Applications submitted by mail must be post marked by June 5, 2017.** Applications can be accessed here: http://www.edundatt.wv.gov/grants/Pages/Education grant

Applications can be accessed here: http://www.edandarts.wv.gov/grants/Pages/Education.aspx.

Fulbright Opportunities in Climate Studies - The Fulbright U.S. Scholar Program competition is excited to announce a variety of awards in climate studies for the 2018-2019 academic year! There are many options for awards focusing on **climate studies**, including the following:

Canada: Research Chairs in Environment

China: Fulbright Distinguished Chair in the Social Sciences Iceland: Fulbright-Ministry for Foreign Affairs Arctic Scholar Finland: Fulbright-Saastamoinen Foundation Award in Health and Environmental Sciences Finland: Fulbright-VTT Grant in Science, Technology and Innovation Russia: Distinguished Chair in Sustainable Development Ukraine: Environmental Sciences

Applicants must be U.S. citizens, and the application deadline is August 1, 2017.

Free training webinars on-demand from Innovative Educators. https://www.innovativeeducators.org/collections/free-training-innovative-educators

NSF NIH DOD

National Science Foundation

The Methodology, Measurement, and Statistics (MMS) Program is an interdisciplinary program in the Directorate for Social, Behavioral, and Economic Sciences that supports the development of innovative, analytical, and statistical methods and models for those sciences. MMS seeks proposals that are methodologically innovative, grounded in theory, and have potential utility for multiple fields within the social and behavioral sciences. As part of its larger portfolio, the MMS Program partners with a consortium of federal statistical agencies to support research proposals that further the development of new and innovative approaches to surveys and to the analysis of survey data.

The MMS Program provides support through a number of different funding mechanisms. The following mechanisms are addressed in this solicitation: Regular Research Awards; Awards for conferences, workshops, and community-development activities; Doctoral Dissertation Research Improvement (DDRI) Grants; and Research Experience for Undergraduates (REU) Supplements. Full Proposal Deadline Date: August 31, 2017.

The Plant Biotic Interactions (PBI) program supports research on the processes that mediate beneficial and antagonistic interactions between plants and their viral, bacterial, oomycete, fungal, plant, and invertebrate symbionts, pathogens and pests. This joint NSF-NIFA program supports projects focused on current and emerging model and non-model systems, and agriculturally relevant plants. The program's scope extends from fundamental

mechanisms to translational efforts, with the latter seeking to put into agricultural practice insights gained from basic research on the mechanisms that govern plant biotic interactions. Projects must be strongly justified in terms of fundamental biological processes and/or relevance to agriculture and may be purely fundamental or applied, or include aspects of both perspectives. All types of symbiosis are appropriate, including commensalism, mutualism, parasitism, and host-pathogen interactions. Research may focus on the biology of the plant host, its pathogens, pests or symbionts, interactions among these, or on the function of plant-associated microbiomes. The program welcomes proposals on the dynamics of initiation, transmission, maintenance and outcome of these complex associations, including studies of metabolic interactions, immune recognition and signaling, host-symbiont regulation, reciprocal responses among interacting species and mechanisms associated with self/non-self recognition such as those in pollen-pistil interactions. Explanatory frameworks should include molecular, genomic, metabolic, cellular, network and organismal processes, with projects guided by hypothesis and/or discovery driven experimental approaches. Quantitative modeling in concert with experimental work is encouraged. Overall, the program seeks to support research that will deepen our understanding of the fundamental processes that mediate interactions between plants and the organisms with which they intimately associate and advance the application of that knowledge to benefit agriculture. Full Proposal Deadline Date: September 1, 2017.

The Science of Organizations (SoO) program funds basic research that yields a scientific evidence base for improving the design and emergence, development and deployment, and management and ultimate effectiveness of organizations of all kinds. SoO funds research that advances our fundamental understanding of how organizations develop, form and operate. Successful SoO research proposals use scientific methods to develop and refine theories, to empirically test theories and frameworks, and to develop new measures and methods. Funded research is aimed at yielding generalizable insights that are of value to the business practitioner, policy-maker and research communities. SoO welcomes any and all rigorous, scientific approaches that illuminate aspects of organizations as systems of coordination, management and governance. Full Proposal Target Date: September 5, 2017.

As specified in the Geography and Spatial Sciences Program strategic plan, the goals of the NSF Geography and Spatial Sciences (GSS) Program are: To promote scientific research in geography and the spatial sciences that advances theory and basic understanding and that addresses the challenges facing society; To promote the integration of geographers and spatial scientists in interdisciplinary research; To promote education and training of geographers and spatial scientists in order to enhance the capabilities of current and future generations of researchers; and To promote the development and use of scientific methods and tools for geographic research. The Geography and Spatial Sciences Program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on Earth. Investigators are encouraged to propose plans for research about the nature, causes, and consequences of human activity and natural environmental processes across a range of scales. Projects on a variety of topics qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. Full Proposal Deadline Date: September 7, 2017.

The Advances in Biological Informatics (ABI) program seeks to encourage new approaches to the analysis and dissemination of biological knowledge for the benefit of both the scientific community and the broader public. The ABI program is especially interested in the development of informatics tools and resources that have the potential to advance- or transform- research in biology supported by the Directorate for Biological Sciences at the National Science Foundation. The ABI program accepts three major types of proposals: Innovation awards that seek to pioneer new approaches to the application of informatics to biological problems, Development awards that seek to provide robust cyberinfrastructure that will enable transformative biological research, and Sustaining awards that seek to support ongoing operations and maintenance of existing cyberinfrastructure that is critical for continued advancement of priority biological research. Full Proposal Deadline Date: September 8, 2017.

The Science of Science & Innovation Policy (SciSIP) program supports research designed to advance the scientific basis of science and innovation policy. The program funds research to develop models, analytical tools, data and metrics that can be applied in the science policy decision making process and concern the use and allocation of scarce scientific resources. For example, research proposals may develop behavioral and analytical conceptualizations, frameworks or models that have applications across the broad array of science and innovation policy hallenges. Proposals also may develop methodologies to analyze science, technology and innovation data, and to usefully convey that information to a variety of audiences. Proposals that create and improve science, engineering and innovation data, including the design of new metrics and indicators, particularly proposals that demonstrate the viability of collecting and analyzing data on knowledge generation and innovation in organizations, are encouraged. Full Proposal Target Date: September 11, 2017.

Focused Research Groups in the Mathematical Sciences (FRGMS) - The purpose of the Focused Research Group activity is to support collaborative groups employing innovative methods to solve specific, major research challenges in the mathematical sciences. A major challenge is an outstanding problem of significant importance that requires the focused and synergistic efforts of a collaborative group to solve, and whose solution will have wide impacts in the mathematical sciences and potentially in other areas. Groups may include, in addition to statisticians and mathematicians, researchers from other science and engineering disciplines appropriate for the proposed research. Risky projects are welcome. Interdisciplinary projects are welcome. Projects should be timely, limited in duration to up to three years, and substantial in their scope and impact for the mathematical sciences. Funded projects that show substantial progress in their first two years may be recommended for a creativity extension for up to an additional two years. Full Proposal Deadline Date: September 13, 2017.

The EHR Core Research (ECR) program of fundamental research in STEM education provides funding in critical research areas that are essential, broad and enduring. EHR seeks proposals that will help synthesize, build and/or expand research foundations in the following focal areas: STEM learning, STEM learning environments, STEM workforce development, and broadening participation in STEM. The ECR program is distinguished by its emphasis on the accumulation of robust evidence to inform efforts to (a) understand, (b) build theory to explain, and (c) suggest interventions (and innovations) to address persistent challenges in STEM interest, education, learning, and participation. The program supports advances in fundamental research on STEM learning and education by fostering efforts to develop foundational knowledge in STEM learning and learning contexts, both formal and informal, from childhood through adulthood, for all groups, and from the earliest developmental stages of life through participation in the workforce, resulting in increased public understanding of science and engineering. The ECR program will fund fundamental research on: human learning in STEM; learning in STEM learning environments, STEM workforce development, and research on broadening participation in STEM. Full Proposal Deadline Date: September 14, 2017.

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National Institutes of Health

Modeling of Infectious Disease Agent Study Research Projects (R01) - The purpose of this funding opportunity announcement (FOA) is to support innovative research that will develop and apply computational tools and methods for modeling interactions between infectious agents and their hosts, disease spread, prediction systems and response strategies. The models should be useful to researchers, policymakers, or public health workers who want to better understand and respond to infectious diseases. This research opportunity encourages applications from institutions/ organizations that propose to provide the scientific and public health communities better resources, knowledge, and tools to improve their ability to prepare for, identify, detect, control, and prevent the spread of infectious diseases caused by naturally occurring or intentionally released pathogens, including those relevant to biodefense. Application Due Date(s): Standard dates apply.

NIH StrokeNet Small Business Innovation Clinical Trials and Biomarker Studies for Stroke Treatment, Recovery, and Prevention (U44) - This Funding Opportunity Announcement (FOA) encourages Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that propose exploratory and confirmatory clinical trials focused on promising interventions, as well as biomarker-or outcome measure validation studies that are immediately preparatory to trials in stroke prevention, treatment, and recovery. The program will utilize the cooperative agreement mechanism to enable milestone-drive projects. Successful applicants may be given access to the NIH StrokeNet infrastructure. Following peer review, NINDS will prioritize trials among the highest scoring to be given access to the StrokeNet infrastructure. The StrokeNet National Coordinating Center (NCC) will work with the successful applicant to implement the proposed study efficiently. The StrokeNet National Data Management Center (NDMC) will provide statistical and data management support. Companion Funding Opportunities are PAR-17-274, U01 Research Project - Cooperative Agreement and PAR-17-275, U44, Small Business Innovation Research (SBIR) Cooperative Agreement. Letter of Intent Due Date(s): 30 days prior to the application due date. Application Due Date(s): Applications are accepted by continuous receipt in three rounds: June 11 – October 10; October 11 – February 10; and February 10 – June 10. For the companion funding opportunities Standard dates apply.

Drug Abuse Prevention Intervention Research (R21) - This Funding Opportunity Announcement (FOA) encourages R21 grant applications for research that will employ rigorous scientific methods to test theoretically derived hypotheses to increase understanding of the science of drug use prevention within diverse populations and settings and across the lifespan. The FOA seeks applications that encompass investigations of cognitive, behavioral, and social processes as they relate to: 1) development of novel prevention approaches; 2) efficacy and effectiveness of prevention interventions or programs; 3) processes that optimize the selection, integration, implementation and sustainability of science-based

prevention, including systems-level and health economic factors; and 4) methodologies appropriate for studying complex aspects of prevention science. Companion Funding Opportunities are PA-15-081, R03 Small Grant Program and PA-15-082, R01 Research Project Grant. Application Due Date(s): Standard dates apply.

Tobacco Regulatory Science (R21) - The purpose of this Funding Opportunity Announcement (FOA) is to invite research project applications to support biomedical and behavioral research that will provide scientific data to inform regulation of tobacco products to protect public health. Research Projects must address the research priorities related to the regulatory authority of the Food and Drug Administration (FDA) Center for Tobacco Products (CTP). The awards under this FOA will be administered by NIH using funds that have been made available through FDA CTP and the Family Smoking Prevention and Tobacco Control Act (P.L. 111-31). Research results from this FOA are expected to generate findings and data that are directly relevant in informing the FDA's regulation of the manufacture, distribution, and marketing of tobacco products to protect public health. Companion Funding Opportunities are RFA-OD-17-007, R01Research Project Grant and RFA-OD-17-008, R03 Small Grant Program. Letter of Intent Due Date(s): 60 days prior to the application due date. Application Due Date(s): August 17, 2017, February 13, 2018, July 17, 2018, February 13, 2019.

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Department of Defense

DoD Breast Cancer Innovator Award (click Related Documents tab) - The Innovator Award supports visionary individuals who have demonstrated exceptional creativity, innovative work, and paradigm-shifting leadership in any field including, but not limited to, breast cancer. The Innovator Award will provide these individuals with the funding and freedom to pursue their most novel, visionary, high-risk ideas that could accelerate progress to ending breast cancer. Because the intent of the Innovator Award mechanism is to recognize these remarkably creative and innovative visionary individuals, rather than projects, the central feature of the award is the innovative contribution that the Principal Investigator (PI) can make toward ending breast cancer. The PI should have a record of challenging the status quo, shifting paradigms by changing a field of research or approach to patient care, exhibiting high levels of creativity, and demonstrating promise for continued innovation in future work. These rare individuals will be able to articulate a vision for ending breast cancer that challenges current dogma and demonstrates an ability to look beyond tradition and convention. The PI is also expected to be established in his/her field and have demonstrated success at forming and leading effective partnerships and collaborations. **Pre-Application Submission Deadline:** 5:00 p.m. Eastern time (ET), June 9, 2017. **Invitation to Submit an Application:** July 10, 2017. **Application Submission Deadline:** 5:00 p.m. ET, August 31, 2017. **Confidential Letters of Recommendation Submission Deadline:** 5:00 p.m. ET, September 5, 2017.

DoD Breast Cancer Era of Hope Scholar Award (click Related Documents tab) - The Era of Hope Scholar Award supports individuals early in their careers who have demonstrated significant potential to effect meaningful change in breast cancer. These individuals should be exceptionally talented scientists who have shown that they are the "best and brightest" in their field(s) through extraordinary creativity, vision, innovation, and productivity. They should have demonstrated experience in forming effective partnerships and collaborations and must exhibit strong potential for future leadership in breast cancer. As the intent of the Era of Hope Scholar Award is to recognize creative and innovative individuals rather than projects, the central features of the award are the applicant's demonstrated ability to go beyond conventional thinking in their field and the innovative contribution that the Principal Investigator (PI) can make toward ending breast cancer. The PI should articulate a vision that challenges current dogma and demonstrates an ability to look beyond tradition and convention. Experience in breast cancer research is not required; however, the application must focus on breast cancer, and the PI must maintain a 50% dedication of his/her full-time professional effort during the award period to breast cancer research. **Pre-Application:** July 15, 2017. **Application Submission Deadline:** 11:59 p.m. ET, August 31, 2017. **Confidential Letters of Recommendation Submission Deadline:** 5:00 p.m. ET, June 20, 2017.

DoD BCRP Breakthrough Fellowship (click Related Documents tab) - The Breakthrough Fellowship Award supports recent doctoral or medical graduates in pursuit of innovative, high-impact breast cancer research during their postdoctoral fellowship and allows them to obtain the necessary experience for an independent career at the forefront of breast cancer research. Those individuals should be exceptionally talented researchers who have demonstrated that they are the "best and brightest" of their peers. Applicants for this award must exhibit a strong desire to pursue a career in breast cancer research, with clear evidence for a researcher development plan that will lead to a successful independent career in breast cancer. Applicants must also demonstrate that the proposed

research has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: Impact: Research supported by the Breakthrough Fellowship Award will have the potential for a major impact and accelerate progress toward ending breast cancer. The impact may be near- term or longterm, but must be significant and move beyond an incremental advancement. **Pre-Application Submission Deadline:** 5:00 p.m. Eastern time (ET), June 8, 2017. **Invitation to Submit an Application:** July 15, 2017. **Application Submission Deadline:** 11:59 p.m. ET, August 31, 2017. **Confidential Letters of Recommendation Submission Deadline:** 5:00 p.m. ET, June 20, 2017.

US Special Operations Command Broad Agency Announcement (click Related Documents tab) - This BAA is intended to solicit extramural research and development ideas, and is issued under the provisions of the Competition in Contracting Act of 1984 (Public Law 98-369), as implemented in Federal Acquisition Regulation 6.102(d) (2) and 35.016. This announcement provides a general description of USSOCOM's research areas of interest, general information, evaluation and selection criteria, and proposal/application preparation instructions. In accordance with FAR 6.102, projects funded under this announcement must be for basic and applied research and that part of development not related to the development of a specific system or hardware procurement. Projects must be for scientific study and experimentation directed toward advancing the state-of-the-art or increasing knowledge or understanding. Projects that are for the development of a specific system or hardware procurement will not be considered. The selection process is highly competitive and the quantity of meaningful proposal/applications (both pre-proposal/pre-applications and full proposal/full applications) typically received exceed the number of awards that available funding can support. This BAA provides a general description of USSOCOM's research and development programs, including research areas of interest, evaluation and selection criteria, pre-proposal/pre-application and full proposal/application preparation instructions, and general administrative information. Pre-proposal submissions can be submitted throughout the open period of the BAA which is May 05, 2017 through May 04, 2018. The Government intends to review pre-proposals in three submission cycles. To be evaluated during one of these cycles, pre-proposals need to be submitted in accordance with the following: Key Dates for First Cycle Submissions - Pre-proposal Submission for the first Program Review is due by 11:59 P.M. Eastern Time (ET), July 28, 2017; Key Dates for Second Cycle Submissions - Pre-proposal Submission for the second Program Review is due by 11:59 P.M. Eastern Time (ET), November 3, 2017; and Key Dates for Third Cycle Submissions - Pre-proposal Submission for the third Program Review is due by 11:59 P.M. Eastern Time (ET), April 14, 2018.

DoD ALSRP Therapeutic Idea Award (click Related Documents tab) - The Therapeutic Idea Award is designed to promote new ideas aimed at drug or treatment discovery that are still in the early stages of development. Development, modification, and/or validation of preclinical model systems or the application of high-throughput screens to define or assess lead compounds for ALS treatment are of interest. Parallel development of methods to measure either target binding or proximal downstream effects (target engagement) and the potential for undesirable activities at related but unintended targets (selectivity) are encouraged. All proposed research projects should include a well-formulated, testable hypothesis based on strong scientific rationale that holds translational potential to improve ALS treatment and/or advance a novel treatment modality. Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 9, 2017. Invitation to Submit an Application: July 2017. Application Submission Deadline: 11:59 p.m. ET, August 31, 2017.

DoD ALSRP Therapeutic Development Award (click Related Documents tab) - The Therapeutic Development Award supports a wide range of development activities ranging from validation of therapeutic leads to U.S. Food and Drug Administration (FDA) Investigational New Drug (IND) application submission. The proposed studies are xpected to be empirical in nature and product-driven. Applications supported by this award must begin with lead compounds in hand. Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 9, 2017. Invitation to Submit an Application: July 2017. Application Submission Deadline: 11:59 p.m. ET, August 31, 2017.

DoD Breast Cancer Distinguished Investigator Award (click Related Documents tab) - The BCRP Distinguished Investigator Award enables established visionary leaders from any field to pursue innovative ideas that could accelerate progress toward ending breast cancer. These individuals should be exceptionally talented researchers who have shown that they are leaders in their field(s) through extraordinary creativity, vision, and productivity. The Principal Investigator (PI) is expected to have a renowned reputation as a researcher who has made groundbreaking contributions to advancing his/her field. He/she should have demonstrated success at forming and leading effective partnerships and collaborations. Through his/her distinguished record of research and leadership, the PI should demonstrate the potential to make unique and significant advances in breast cancer. The central feature of the Distinguished Investigator Award is that the PI must propose research that is a fundamental shift from his/her track record of research and addresses one or more BCRP overarching challenge(s). Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 9, 2017. Invitation to Submit an Application: July 2017. Application Submission Deadline: 11:59 p.m. ET, August 31, 2017. FY17 BCRP Breakthrough Award Levels 1 & 2 (click Related Documents tab) - The intent of the Breakthrough Award is to support promising research that has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: Impact: Research supported by the Breakthrough Award will have the potential for a major impact and accelerate progress toward ending breast cancer. The impact may be near-term or long-term, but must be significant and move beyond an incremental advancement. Applications must articulate the pathway to making a clinical impact for individuals with, or at risk for, breast cancer, even if clinical impact is not an immediate outcome. Research Scope: Research proposed under this award mechanism may be small- to large-scale projects, at different stages of idea and research development. Two different funding levels, based on the scope of the research, are available under this Program Announcement/Funding Opportunity. The current Program Announcement/Funding Opportunity discusses Funding Levels 1 and 2. Funding Levels 3 and 4 are available under a different Program Announcement/Funding Opportunity (W81XWH-17-BCRP-BREAK-THROUGH_FL34). Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 8, 2017. Application Submission Deadline: 11:59 p.m. ET, June 15, 2017.

DoD Ovarian Cancer Investigator-Initiated Research Award, DoD Ovarian Cancer Pilot Award, DoD Ovarian Cancer Academy – Early-Career Investigator Award, and DoD Ovarian Cancer Clinical Development Award click Related Documents tab) – These awards are intended to support high-impact research that has the potential to make an important contribution to ovarian cancer or patient/survivor care. Research projects may focus on any phase of research, from basic laboratory research through translational research, and clinical trials. The application must demonstrate logical reasoning and a sound scientific rationale established through a critical review and analysis of the literature for the application to be competitive. Applications must include preliminary data that are relevant to ovarian cancer and support the proposed research project. For all awards except the Pilot Award Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 21, 2017. Invitation to Submit an Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 14, 2017. Invitation to Submit an Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 14, 2017. Invitation to Submit an Application: July 2017. Application Submission Deadline: 11:59 p.m. ET, August 24, 2017.

DoD Bone Marrow Failure Idea Development Award (click Related Documents tab) - The BMFRP Idea Development Award is intended to support innovative ideas and high-impact approaches based on scientifically sound evidence to move toward the BMFRP vision of understanding and curing BMF diseases. This award mechanism is designed to support new ideas. Proposed research studies should have a high probability of revealing new avenues of investigation. The research project should include a well-formulated, testable hypothesis based on strong scientific rationale and a well-developed and articulated research approach. Personnel on the proposed team should have a strong background in BMF research. The anticipated direct costs budgeted for the entire period of performance for an FY17 BMFRP Idea Development Award will not exceed \$315,000. Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), July 13, 2017. Invitation to Submit an Application: August 22, 2017. Application Submission Deadline: 11:59 p.m. ET, October 5, 2017.

Innovative Systems for Military Missions - The Tactical Technology Office of the Defense Advanced Research Projects Agency is soliciting executive summaries, white paper and proposals for advanced research, development and demonstration of innovative systems for military missions. Proposal Due Date: 4 PM Eastern Time on 12 June 2017.

DoD Multiple Sclerosis Research Program, Investigator-Initiated Research Award (click Related Documents tab) -The Investigator-Initiated Research Award supports highly rigorous, high-impact research projects that have the potential to make an important contribution to MS research and/or patient care. Research projects may focus on any phase of research, excluding clinical trials. The rationale for a research idea may be derived from laboratory discovery, clinical trial results, population-based studies, a clinician's firsthand knowledge of patients, or anecdotal data. Applications must include preliminary and/or published data that are relevant to MS and the proposed research project. Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 26, 2017. Invitation to Submit an Application: August 2017. Application Submission Deadline: 11:59 p.m. ET, October 5, 2017.

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