

Distinguished Educator Fellowship Program

Summary Report 2014-2015 Fellowship Year

Prepared by the U.S. Department of Energy, Office of Science Office of Workforce Development for Teachers and Scientists

Program Overview

The Albert Einstein Distinguished Educator Fellowship (AEF) Program provides a unique opportunity for accomplished K-12 educators in the fields of science, technology, engineering, and mathematics (STEM) to serve in the national education arena. Fellows spend eleven months, beginning in September of each year, working in Federal agencies or in U.S. Congressional offices, bringing their extensive knowledge and classroom experience to education program and/or education policy efforts.

The AEF Program operates under the Albert Einstein Distinguished Educator Fellowship Act of 1994 (Pub. L 103-382). The legislation states that the Department of Energy (DOE) administers the AEF Program including recruitment, application and selection, and overall management.

The AEF Program is designed to meet the following objectives identified in the legislation: 1) to provide outstanding elementary and secondary STEM education teachers the opportunity to bring to Congress and appropriate branches of the federal government the insights, extensive knowledge, and practical experience of classroom teachers; 2) to increase the understanding, communication, and cooperation between Congress and Federal agencies; and 3) to increase the understanding, communication and cooperation between the federal government and the STEM education community.

The Federal science agencies that host Fellows have as part of their goals to support STEM education to help ensure a future workforce is sufficiently prepared to contribute to the emerging science and technology fields. Fellows are placed in education offices where they provide insights during project conceptualization and assistance with established programs. The Congressional offices that host Fellows, sponsored by DOE, have either a strong STEM portfolio or want to increase their portfolios within their offices.

Overview of the 2014-2015 Participants, Federal Agencies, and Congressional Offices

Nineteen educators were selected for the 2014-2015 Cohort of AEF Fellows: Number of high school teachers: 11[#] Number of upper elementary and middle school teachers: 10[#] Number of states represented by the Fellows: 16 [#]Two Fellows teach at both the middle and high school levels.

The Fellows were selected by the following Agencies and Congressional Offices:

U.S. Department of Energy: 3 National Aeronautics and Space Administration: 2 National Oceanic and Atmospheric Administration: 1 National Science Foundation: 10 Senator Bill Nelson, FL: 1* Senator Kirsten Gillibrand, NY: 1* Congressman Mike Honda, CA: 1* *DOE sponsored the four Congressional placements.

Program Scope

Fellowship Support**

All Fellows receive a monthly stipend of \$7,000, which is paid by the sponsor offices. Additionally, Fellows can request to receive up to \$3,500 for travel and fees associated with their professional development during the Fellowship. All current benefits for are available on the program website: http://science.energy.gov/wdts/einstein/.

Application**

The on-line application is located on the DOE website at: http://science.energy.gov/wdts/einstein/. Interested educators can access the application from mid-August through mid-November.

The application consists of three sections:

- Questions highlighting educational background, professional experience, professional activities, awards and publications;
- Five essay questions; and
- Three letters of recommendation, one being from a school district official.

The responses to the questions on the application are used to assess the eligibility of the application. While most of this information is fact-specific, it provides a way to make both a quick and qualitative evaluation when compared with the responses in the essays.

Application Review and Selection**

The application review, selection, and placement process is communicated in detail and posted on the AEF web page: http://science.energy.gov/wdts/einstein/how-to-apply/application-review-and-selection-process/.

Positions Descriptions

Host offices interviewing selected candidates, the semi-finalists, must have, in advance of the interviews, a one-page position description that details the work load requirements and planned responsibilities within the office. The semi-finalists can then gauge their interests and capabilities in the positions and determine the best fit for their individual needs.

Contributions to the Host Offices

Fellows are regularly recognized for making significant contributions to their host offices. Most of this is managed and guided by position descriptions under the guidance of host office supervisors.

The Fellows in each cohort are usually a collaborative group and are encouraged to share ideas and work together to expand upon tasks and inevitably deliver projects beyond expectation. Position accomplishments are observed by program management during the four required "reports and presentations" due throughout the Fellowship.

Fellows' Professional Development

Fellows are required to establish individual professional development plans designed around high-level goals that combine to advance the knowledge and skills of the Fellows. These plans help the Fellows identify goals and objectives and establish "actions" that will contribute to the achievement of the high-level goals.

The professional development resources available to Fellows from science agencies, STEM policy experts, advocacy organizations, and other STEM education stakeholders may not exist at this level at any other time in their career. The establishment of a plan with milestones will help ensure a valuable experience both within and outside their host offices and into the future.

Outcomes

Fellows complete the AEF Program with a portfolio of opportunities to share with colleagues and students. The portfolios include information on: undergraduate and graduate internships, scholarships, the national research infrastructure supported by the Federal government, how to compete for grants, the latest research on advancing STEM education, and opportunities that inspire students towards STEM careers.

The experiences gained are personally and professionally valuable, and subsequently shared with colleagues. By gaining a clearer understanding of educational issues at the national and local level, Fellows become recognized leaders for the ability to convey substantive information and influence the future of STEM education.

**Current descriptions as of May 2017

Albert Einstein Distinguished Educator Fellowship Program 2014-2015 Fellows

Einstein Fellow	Home State	Sponsor/ Host Office
Name	Grade Level(s)	Accomplishments
Deborah Cornelison	Oklahoma Middle and High School Science	NSF, Education and Human Resources Directorate, Division of Undergraduate Education (DUE)
		Cornelison She worked with programs concerned with STEM teacher preparation and STEM teacher leadership such as the Robert Noyce Teacher Scholarship Program and Math Science Partnership (MSP) programs. Cornelison contributed to a portfolio analysis by compiling a comprehensive list of research articles based on Noyce projects, authorized by Noyce awardees, and published in peer- reviewed journals. With this information, she developed a Noyce publications resources guide.
Kaye Ebelt	Montana Elementary School	NSF, Directorate for Engineering, Division of Civil, Mechanical and Manufacturing Innovation
		Ebelt worked with her sponsor to develop a guide on engineering education outreach. She also developed a 3D printing and engineering activities and lesson plan book for K-8 and high school teachers. Ebelt also assisted with the first Capitol Hill Maker Faire by contacting local Makers, Tech Shops and other government agencies to help create an information flyer to distribute to the attendees.
Natalie Harr ²	Ohio Elementary School	NSF, Division of Research on Learning in Formal and Informal Settings
		Harr supported the peer review panel process by working alongside program offices to locate potential panelists, observing and documenting panel discussion, and providing expert feedback on likely funded proposals. Harr's

		background in early STEM learning was valuable as she provided insight for a newly developed Discovery Research K-12 program solicitation. Harr also worked with two other Einstein Fellows at the request of the National Science Board to compile data and identify requirements of each state for initial teacher certification for K-12 Math and Science Teachers.
Katie Hendrickson	Ohio Middle School Science	NSF, Directorate for Computer & Information Science & Engineering, Division of Information and Intelligent Systems
		Hendrickson was heavily involved in the planning a conference for 100 computer science teachers involved in an NSF- funded project. The conference was organized in conjunction with the National Center for Women and Information Technology. In her role, Hendrickson worked directly with the teachers to help coordinate attendance and logistics. She also planned and emceed one of the conference sessions at the event. Hendrickson also played a significant role in organizing a 2-day event for the CE21 Principal Investigator and Community by developing a 75-page booklet featuring reports from each of the PIs on major projects.
Kathryn Hoppe ²	New York	NSF, Engineering Directorate, Division of Engineering Education & Centers
	High School Science	Hoppe's contributions include updating the Research Experiences for Teachers (RET) and Research Experiences for Undergraduates (REU) setting up and monitoring the RET and REU listservs, and observing panels and learning about the award process. Hoppe also worked with 2 other Einstein Fellows at the request of the National Science Board to compile data and identify requirements of each state for initial teacher certification for K-12 Math and Science Teachers.
Pamela Krauss	Florida	DOE, Office of Science (sponsor)

		Senator Nelson (host office)
	High School Science	
		Krauss supported her office with
		introduction of legislation with a "train the
		trainer" concept that matched newly retired
		STEM professionals with in-service teachers
		to enhance their knowledge and application
		of subject matter with real world
		application. By the end of her fellowship
		Senator Nelson introduced the concent as a
		part of ESEA/NCLB regulation. The
		Commerce Committee has also committee
		to fully developing this segreent as a part of
		to fully developing this concept as a part of
2		America Competes.
Jennie Lyons ²	New York	NSF, Computer and Information Science and
		Engineering Directorate, Division of
	High School Computer	Information and Intelligent Systems
	Science	
		Lyons produced issues of Bits & Bytes, an
		online publication developed by NSF to
		make computer science more accessible
		to educators and learners. Lyons also
		assisted with the review panels for the
		Education Workforce group by
		performing the compliance and conflict of
		interest checks and participating in the
		review analysis if the panels. Lyons also
		worked with 2 other Finstein Fellows at
		the request of the National Science Board
		to compile data and identify
		requirements of each state for initial
		teacher certification for K 12 Math and
		Science Teachers
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Jettrey Milbourne	North Carolina	DUE, Office of Science (sponsor)
		Congressman Mike Honda (nost office)
	High School Science	
		Milbourne supported his office by
		introducing legislation that included
		language for the STEM Master Teacher
		Corps, teacher professional development
		and training, data disaggregation and Civics
		education. Milbourne worked closely with
		Congressman Honda to craft his education
		message by writing opinion pieces for the
		Huffington Post, Roll Call and The Hill. He
		also worked with the Congressman on

		speeches for educational events such as the
		Social Innovation Summit, Extended
		Learning Summing and the American
		Education Research Association annual
		conference.
Daniel Newmyer	Colorado	NASA Office of Education and the Goddard
Builler Hewinger		Space Flight Center
	Middle and High School	Space Flight Center
	Science	Nowmyar worked with a decumentary film
	Science	Newinyer worked with a documentary min
		producer to develop a digital learning tool to
		engage underserved and underrepresented
		students with NASA resources. Newmyer
		ensured that high quality NASA STEM
		content was included in the work as well as
		facilitated connections with appropriate
		staff at NASA. Newmyer also worked to
		develop and implement Educator
		Professional Development for the Maryland
		State Schools/NASA STEM Master Teacher
		program as well as elementary teachers
		from Pennsylvania.
Mary Patterson	Texas	NSF, Computer Information Science and
,		Engineering Directorate, Advanced
	Middle School Science	Cyberinfrastructure Program
		Patterson organized the Distinguished
		Lecture Series and was the point of contact
		for all those involved in the cross-
		directorate program Patterson also
		conducted a portfolio review analysis of
		awards in Cuborloarning. This information
		awarus in Cyberlearning. This information
		the Coster for Incomine December in
		the Center for innovative Research in
		Cyberlearning 2015 meeting as well as other
		cross-directorate meetings.
Kara Pezzi	Wisconsin	DOE, Office of Science
	High School Science	Pezzi volunteered at three regional
		competitions in order to become familiar
		with the NSB competitions process. Pezzi
		worked with another Fellow, Ann Reimers,
		to develop a process to diversify the
		questions as well as improve categorization
		of the questions. Pezzi also assisted with the
		Division Team Challenges by editing the
		procedures and procuring the materials
		Division Team Challenges by editing the procedures and procuring the materials

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		needed for these events. On the day of the
		National competition, she assisted with
		registration, enhancement activities and
		Division Team Challenges and scorekeeping.
Ann Reimers	Virginia	DOE, Office of Science
	High School Science	Reimers served as a team member working to implement the 2015 National Science Bowl (NSB). One of her greatest accomplishments was that she and another Fellow, Kara Pezzi, established and implemented a way to improve the quality of all questions used during the competition. They revised the process for how questions are submitted and labeled to facilitate greater automation in the sorting and distribution of questions. In addition to her work with the NSB, she also wrote three "Stay-All-Day" activities which were
		Stay-All-Day activities which were
		reatured on the NSB website for regional
		coordinators to use during their
		competitions.
John (Trey) Smith	Pennsylvania	DOE, Office of Science (sponsor)
		Senator Gillibrand (host office)
	High School Science	
		Smith was involved in identifying and
		securing a bipartisan cosponsor for an
		engineering education amendment (which
		was created by an Einstein Fellow four years
		ago) to the Senate's bill to reauthorize ESEA.
		Smith negotiated with a staffer in a
		Republican office to secure co-sponsorship
		of the amendment. The amendment was
		accepted by the HELP committee and was
		integrated in the bill that eventually was
		passed by the Senate.
Joshua Sneideman ²	California	DOE, Office of Energy Efficiency and
		Renewable Energy
	Middle School Science	
		In collaboration with the American
		Geoscience Institute (AGI), Sneideman
		created a video series to help spread energy
		literacy to a larger audience. These videos
		were later announced as part of the White
		House Climate Education Initiative.
		Sneideman was also often called on to assist

other DDE offices with their energy education outreach efforts. He assisted the Bioenergy Technologies Office with their #BioEnergizeMe project, an infographic challenge for high school students. He also assisted the Office of Economic Impact and Diversity by providing feedback and guidance on the STEM Education pillar of their 3-year implementation plan for the Minorities in Energy Initiative.Beverly StambaughOhioNSF, Directorate for GeosciencesMiddle School Science and MathematicsStambaugh actively participated in the organization, planning and execution of the Engaging Networks of Geoscientists and Geoscience Educators (ENGAGE) workshop. She also participated in the US GLOBE Partner Forum and was able to draw on her previous training as a GLOBE teacher and her experiences in the classroom to contribute.Anna SumnerNebraskaNSF, Directorate for Education and Human Resources, Human Resources Development DivisionMiddle School Engineering and TechnologySumner worked with the Presidential Awards for Excellence in Mathematics and science Teaching (PAEMST) program. Sumner's major responsibility was to be an in-house specialist bringing the engineering and technology perspective as well as her teaching experience to the team. She provided research, ideas, ross-referencing skills, and design support to the team. She screened documents and applications requiring confidentiality, and participated, presented and answered questions in program webinars and panels.June TeisanMichiganNOAA, Office of EducationMiddle School Science auros the NOAA education and asserved as screence arces, planning and presenting several break-out sessions at the National Science Teachers Association (NST			
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			annual conference. Teisan also served as

		Chair of the Global Learning and
		Observations to Benefit the Environment
		(GLOBE) Education Working Group and lead
		the team to preparing a GLOBE
		Collaborative Video Eastival in 2016
	Illinois	
Rebecca Vieyra	lilinois	NASA, Aeronautics Research Mission
		Directorate (ARMD)
	High School Science	
		Vieyra completed a 5-year Space Act
		Agreement between NASA Aeronautics and
		the American Association of Physics
		Teachers (AAPT). The agreement formulated
		the relationship between the two
		organizations, including the development
		and outreach of a large aeronautics
		education resource titled Aeronautics for
		Introductory Physics As a part of hor dutios
		Views also served as the NASA Deint of
		Contract and Los day for the Internetic and
		Contact and Leader for the International
		Forum for Aviation Research (IFAR). Her
		responsibilities included organizing virtual
		conferences, preparing Young Researcher
		Conference Pre-Summit Activities and
		helping to re-design and manage the
		IFARlink social and professional networking
		platform.
Erica Wallstrom	Vermont	NSF. Directorate for Geosciences. Division of
		Polar Programs
	High School	
	Mathematics	Wallstrom's primary responsibility was
	in a chemicarios	supporting the implementation of the loint
		Science Education Dreject (ISED) Her
		Science Education Project (JSEP). Her
		responsibilities included assisting in the
		recruitment, identification, and selection of
		the student participants, facilitating
		connections between the Greenlandic team
		leader and new grantee, and supporting
		curriculum development. With the goal of
		identifying underserved students to
		participate in the JSEP program, she helped
		modify the student application and write a
		new rubric. Wallstrom joined the group in
		Greenland during both the 2014 and 2015
		coscons whore she worked closely with
		topologic resource and students
		teachers, researchers and students.

¹ First of two years

² Second of two years