

**GREAT RIVERS
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**AMENDMENT FOUR TO
COOPERATIVE and JOINT VENTURE AGREEMENT**

between

**U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management
U.S. Geological Survey
National Park Service
U.S. Fish and Wildlife Service**

**U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service
U.S. Forest Service
Farm Service Agency**

**U.S. DEPARTMENT OF DEFENSE
Office of the Assistant Secretary of Defense for
Energy, Installations, and Environment
U.S. Army Corps of Engineers – Civil Works**

and

**The Curators of the UNIVERSITY OF MISSOURI (HOST)
Drake University
Indiana University
Iowa State University
Lincoln University
Southern Illinois University
Missouri State University
University of Illinois
University of Iowa
University of Kansas
University of Minnesota
Audubon Missouri
Audubon Minnesota (formerly Upper Miss. River Campaign)
Conservation Federation of Missouri
Missouri Botanical Garden
National Mississippi River Museum and Aquarium
St. Mary's University of Minnesota**

**University of Notre Dame
Winona State University
National Great Rivers Research and Education Center
University of Memphis
Southeast Missouri State University
Saint Louis University**

Adding:

**Bureau of Indian Affairs
Southern Illinois University Edwardsville**

With the exception of the changes below, all terms and conditions of the Great Rivers CESU Cooperative and Joint Venture Agreement apply to this Amendment, and this Amendment is hereby made part of the Agreement.

ARTICLE I. BACKGROUND AND OBJECTIVES

A.2. The Bureau of Indian Affairs (BIA) is hereby included in the Great Rivers CESU as a Federal Agency Partner.

E.0. Pursuant to enactment of Title 54, U.S. Code, "National Park Service and Related Programs," Section E. (National Park Service) is hereby amended and restated in its entirety as follows:

E. The National Park Service (hereinafter called NPS) manages areas of the National Park System "to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations" (54 U.S.C. § 100101 et seq.). In support of this broad mission, the Secretary of the Interior "shall ensure that management of System units is enhanced by the availability and utilization of a broad program of the highest quality science and information" (54 U.S.C. § 100702), and "shall enter into cooperative agreements with colleges and universities, including land grant schools, in partnership with other Federal and State agencies, to establish cooperative study units to conduct multi-disciplinary research and develop integrated information products on the resources of the System, or the larger region of which System units are a part" (54 U.S.C. § 100703). The NPS is authorized to enter into cooperative agreements with public or private educational institutions, States, and their political subdivisions, for the purpose of developing adequate, coordinated, cooperative research and training activities concerning the resources of the National Park System (54 U.S.C. § 101702(b)); with State, local and tribal governments, other public entities, educational institutions, and private nonprofit organizations for the public purpose of carrying

out National Park Service programs (54 U.S.C. § 101702(a)); with State, local, or tribal governments, other Federal agencies, other public entities, educational institutions, private nonprofit organizations, or participating private landowners or individuals for the purpose of protecting natural resources of units of the National Park System through collaborative efforts on land inside and outside of National Park System units (54 U.S.C. § 101702(d)) or to investigate, protect, preserve, maintain, or operate any historic or archeologic building, site, or object of national significance (54 U.S.C. §§ 320101-320103); and with any State or local government, public or private agency, organization, institution, corporation, individual, or other entity for the purpose of sharing costs or services in carrying out authorized functions and responsibilities of the Secretary of the Interior with respect to any unit or program of the National Park System, any affiliated area, or any designated National Scenic or Historic Trail (54 U.S.C. § 101701). NPS is also authorized to provide conservation, recreation, and disaster assistance to partners to help them achieve goals of mutual interest (54 U.S.C. § 200103, 16 U.S.C. § 1723(c)), and support projects to be carried out on Federal, State, local, or private lands as part of disaster prevention or relief efforts in response to an emergency or major disaster declared by the President under the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. § 5121 et seq.). In accordance with the aforementioned authorities, the NPS is authorized to enter into this Agreement to continue the Great Rivers CESU to assist in providing research, technical assistance and education.

- L.3. Southern Illinois University Edwardsville is hereby included in the Great Rivers CESU as a Partner Institution.

- N. Bureau of Indian Affairs (BIA) is the oldest bureau of the United States Department of the Interior. Established in 1824, BIA currently provides services to approximately 1.9 million American Indians and Alaska Natives. There are 566 federally recognized American Indian tribes and Alaska Natives in the United States. The mission of the Bureau of Indian Affairs is to: "... enhance the quality of life, to promote economic opportunity, and to carry out the responsibility to protect and improve the trust assets of American Indians, Indian tribes, and Alaska Natives." BIA has responsibility for the administration and management of 55 million surface acres and 57 million acres of subsurface minerals estates held in trust by the United States for American Indian, Indian tribes, and Alaska Natives. BIA serves a special role, both serving tribes through trust management and by providing technical support and advice across a broad range of topics. The BIA is also the lead agency providing for federal management of the trust corpus held on behalf of tribal government and individual beneficial owners and as such is tasked with coordinating science, technical education, and management needs for those trust resources. The tribes, through the Indian Self-Determination and Education Assistance Act of 1975 (Pub. L. 93-638), are authorized to contract BIA management functions and as such mission needs, research results, and education efforts serve and enable tribal and BIA staff. The Act also authorized the federal government to follow specific contracting

regulations for Recognized Federal Indian Tribes, and with tribal approval, tribally chartered Indian colleges and universities.

BIA participation in the CESU Network will include support, coordination, and cooperation focused on science and education for climate and trust resource management, as well as other areas within its range of mission-related services and activities. BIA is authorized to enter into cooperative agreements under the general authority for climate change via the Snyder Act of 1921, as amended, 25 U.S.C. § 13; for FY14 (2-year funding) via Pub. L. 113-76, and FY15 (2-year funding) via Pub. L. 113-164, as amended (and subsequent annual budget appropriations as may be authorized during the term of the agreement); and for any potential Forestry and Wildland Fire Management program efforts, via the National Indian Forest Resources Management Act of 1990, Pub. L. 101- 630. BIA has the authority to enter into this agreement pursuant to 25 U.S.C. § 2; the Education and Training Program, 23 U.S.C. § 6004; and Snyder Act of 1921, as amended, 25 U.S.C. § 13.

ARTICLE II. STATEMENT OF WORK

A.8.a. Section A.8. is hereby amended and restated in its entirety as follows:

A.8. Ensure its employees follow the Code of Ethics for Government Service (Pub. L. 96-303) and Standards of Ethical Conduct (5 CFR Part 2635);

D.6.a. Section D.6. is hereby amended and restated in its entirety as follows:

D.6. Follow 2 CFR 200, OMB Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), as appropriate; and the related federal agency regulations, as applicable, specifically 22 CFR 518 (Department of Defense), 32 CFR Parts 21, 22, 32, 33, and 34 (Department of Defense), 10 U.S.C. 2358, 10 U.S.C. 3036(d), 33 U.S.C. 2323a, and DOD 3210.6-R, Department of Defense Grant and Agreement Regulations (Department of Defense); and these documents are incorporated into this Agreement by reference.

D.7. Provide data on CESU projects to the CESU Network National Office and/or host institution in accordance with CESU Council guidelines as posted on the CESU Network website (www.cesu.org).

D.8. Engage in collaborative activities consistent with federal scientific and scholarly integrity directives and policies (e.g., Presidential and OSTP Scientific Integrity Memoranda; DOD Instruction 3200.20; DOI 305 DM 3; USDA DR 1074-001;), as appropriate.

ARTICLE III. TERM OF AGREEMENT

- A.1. The effective date of the Great Rivers CESU Cooperative and Joint Venture Agreement is 15 July 2013.
- A.2. The effective date of this Amendment to the Great Rivers CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature to this Amendment.
- C.0. Section C. is hereby amended and restated in its entirety as follows:

C. Amendments to this Agreement shall be made according to the following provisions:

C.1. For the purposes of this Agreement, Amendments are changes (edits, deletions, or additions) to the Agreement that do not involve the transfer of funds. Amendments may be proposed by any of the Federal Agencies, the Host University, or by the Host University on behalf of any of the Partner Institutions. Amendments shall be executed in writing by the CESU Network National Office. Amendments shall be signed by all signatories to this Agreement, except in cases described in Sections C.2. and C.3. (below). Unless otherwise specified, all terms and conditions of the CESU Agreement apply to the Amendment, and once fully executed the Amendment is made part of the Agreement.

C.2. For Amendments for which the sole purpose is to add a Partner Institution and/or Federal Agency to this Agreement, the Partner Institution and/or Federal Agency being added to the Agreement and the Host University shall sign the Amendment. New Partner Institutions and/or Federal Agencies shall be approved and added in accordance with the CESU Council guidelines, as posted on the CESU Network website (www.cesu.org). All partners shall receive prior notification of amendments.

C.3. For amendments for which the sole purpose is to incorporate administrative changes that do not affect the intent, execution, and implementation of the terms of this Agreement, such as partner name changes or modifications as required by federal (e.g., OMB) financial assistance regulations, the Partner Institution and/or Federal Agency requesting the administrative change and the Host University shall sign the amendment. Such amendments shall be made at the discretion of the CESU Council and all partners shall receive prior notification of amendments.

ARTICLE IV. KEY OFFICIALS

- A.10. The technical representative for the Bureau of Indian Affairs is:

Rachael Novak
Climate Science Coordinator
Bureau of Indian Affairs
1849 C Street NW, MIB 4633
Washington, DC 20240
Phone: (202) 219-1652
rachael.novak@bia.gov

C.23. The representatives for Southern Illinois University Edwardsville are as follows:

Technical Representative

Dr. Jerry Weinberg
Associate Provost for Research and Dean of the Graduate School
Southern Illinois University Edwardsville
Rendleman Hall Room 2215
Edwardsville, IL 62026-1046
Phone: (618) 650-3010
Fax: (618) 650-3523
jweinbe@siue.edu

Administrative Representative

Dr. Susan Morgan
Associate Dean for Research and Graduate Studies
Graduate School.
Southern Illinois University Edwardsville
Rendleman Hall Room 2215
Edwardsville, IL 62026-1046
Phone: (618) 650-3010
Fax: (618) 650-3523
smorgan@siue.edu

ARTICLE V. AWARD

B.0. Section B. is hereby amended and restated in its entirety as follows:

B. Payments will be made by the Federal Agencies for work in accordance with 2 CFR 200, as appropriate, and the related federal agency regulations, as applicable, specifically, 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323(a), 10 U.S.C. 3036(d), and DOD 3210.6-R, Department of Defense Grant and Agreement Regulations (U.S. Army Corps of Engineers–Civil Works).

C.0. Section C. is hereby amended and restated in its entirety as follows:

C. A 17.5% indirect cost rate will be paid on work covered by the Agreement and all its modifications or task agreements, with exceptions listed in Article V. paragraphs C.1., C.2., and C.3. (below). Refer to agency-specific policy and guidance for additional information regarding approval and implementation under 2 CFR 200, as appropriate (e.g., DOI-AAAP-0007 [Department of the Interior]; FAM-2015-02 [Department of Commerce]).

C.1. The USFS cannot reimburse "state cooperative institutions" for indirect costs, pursuant to 7 U.S.C. § 3103(18) and 7 U.S.C. § 3319. Indirect costs may be used to satisfy USFS cost sharing requirements of at least a minimum of 20% of total project costs. It is recommended that cost-sharing is greater than 20% in accordance with the Forest Service Handbook FSH1509.11, Chapter 70.

C.2. For NRCS, the indirect cost rate is limited to 10% of total direct costs for colleges, universities, and other nonprofit organizations pursuant to Section 704 of Pub. L. 114-113.

C.3. No indirect cost will be charged by the Host University for funds transferred directly from a participating Federal Agency to a Partner Institution via a modification (i.e., project award) to the Agreement.

ARTICLE VI. PRIOR APPROVAL

ARTICLE VI. is hereby amended and restated in its entirety as follows:

Prior approvals are in accordance with 2 CFR 200, as appropriate, and the related federal agency regulations, as applicable, specifically 22 CFR Part 518 (Department of Defense), 10 U.S.C. § 2358, 33 U.S.C. § 2323(a), 10 U.S.C. § 3036(d), and DOD 3210.6-R, Department of Defense Grant and Agreement Regulations (U.S. Army Corps of Engineers–Civil Works).

ARTICLE VII. REPORTS AND/OR DELIVERABLES

A.0. Section A. is hereby amended and restated in its entirety as follows:

A. Reports in accordance with 2 CFR 200, as appropriate, and the related federal agency regulations, as applicable, specifically 22 CFR Part 518 (Department of Defense), 10 U.S.C. § 2358, 33 U.S.C. § 2323(a), 10 U.S.C. § 3036(d), and DOD 3210.6-R, Department of Defense Grant and Agreement Regulations (U.S. Army Corps of Engineers–Civil Works) establish uniform reporting procedures for financial and technical reporting.

ARTICLE VIII. PROPERTY UTILIZATION AND DISPOSITION

ARTICLE VIII. is hereby amended and restated in its entirety as follows:

Property utilization and disposition is in accordance with 2 CFR 200, as appropriate, and the related federal agency regulations, as applicable, specifically 22 CFR Part 518 (Department of Defense), 10 U.S.C. § 2358, 33 U.S.C. § 2323(a), 10 U.S.C. § 3036(d), and DOD 3210.6-R, Department of Defense Grant and Agreement Regulations (U.S. Army Corps of Engineers-Civil Works).

ARTICLE IX. TERMINATION

ARTICLE IX. is hereby amended and restated in its entirety as follows:

Termination of this Agreement is in accordance with 2 CFR 200, as appropriate, and the related federal agency regulations, as applicable, specifically 22 CFR Part 518 (Department of Defense), 10 U.S.C. § 2358, 33 U.S.C. § 2323(a), 10 U.S.C. § 3036(d), and DOD 3210.6-R, Department of Defense Grant and Agreement Regulations (U.S. Army Corps of Engineers-Civil Works). Any party to this Agreement may terminate its participation by delivery of ninety (90) days advance written notice to each of the Federal Agencies and the Host University.

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES

The following authorizing signatures are attached to this Amendment:

U.S. DEPARTMENT OF THE INTERIOR

- A. Bureau of Land Management
- B. U.S. Geological Survey-Biological Resources Division
- C. National Park Service
- D. U.S. Fish and Wildlife Service
- E. Bureau of Indian Affairs**

U.S. DEPARTMENT OF AGRICULTURE

- F. Natural Resources Conservation Service
- G. U.S. Forest Service
- H. Farm Service Agency

U.S. DEPARTMENT OF DEFENSE

- I. Office of the Assistant Secretary of Defense for Energy, Installations, and Environment
- J. U.S. Army Corps of Engineers – Civil Works

- K. THE CURATORS OF THE UNIVERSITY OF MISSOURI (HOST)
- L. Drake University
- M. Indiana University
- N. Iowa State University
- O. Lincoln University
- P. Southern Illinois University
- Q. Missouri State University
- R. University of Illinois
- S. University of Iowa
- T. University of Kansas
- U. University of Minnesota
- V. National Audubon Society, Inc. dba Audubon Missouri
- W. National Audubon Society, Inc. dba Audubon Minnesota
- X. Conservation Federation of Missouri
- Y. Missouri Botanical Garden
- Z. National Mississippi River Museum and Aquarium
- AA. St. Mary's University of Minnesota
- BB. University of Notre Dame
- CC. Winona State University
- DD. National Great Rivers Research and Education Center
- EE. University of Memphis
- FF. Southeast Missouri State University
- GG. Saint Louis University
- HH. Southern Illinois University Edwardsville**

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

A. Bureau of Land Management



Karen Mouritsen
State Director
Eastern States Office

7-18-17

Date



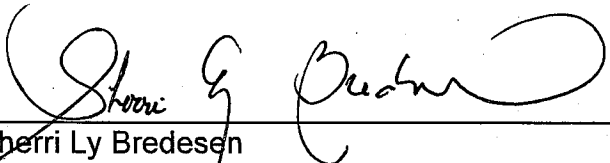
Brandon Riley
Grants Management Officer

7/18/2017

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

B. U.S. Geological Survey




Sherri Ly Bredesen
Contracting Officer

07/11/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

C. National Park Service

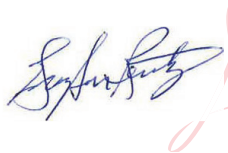


Nancy Finley
Associate Regional Director, NRSS

11-20-17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

D. U.S. Fish and Wildlife Service

 Digitally signed by
GRAYSON RENTZ
Date: 2017.07.11
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07/11/2017

Date

~~John E. Stokes~~
~~Chief, Contracting and General Services Division~~
~~Region 3~~

Grayson Rentz
Grants Management Specialist

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

E. Bureau of Indian Affairs



Director, Bureau of Indian Affairs
U.S. Department of the Interior

9/19/17
Date

BRIAN
SCHOELLKOPF

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Jo Ann Metcalfe
Grants Management Specialist

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

F. Natural Resources Conservation Service

RAFAEL J. GUERRERO

RAFAEL GUERRERO
Acting Deputy Chief for Science and Technology

08/31/2017

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

G. U.S Forest Service

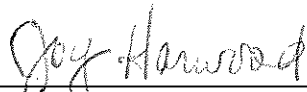


David Garrison
Grants and Agreements Specialist
Northern Research Station

7/10/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

H. Farm Service Agency



Joy Harwood
Director, Economic and Policy Analysis Staff

10/26/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

I. Office of the Assistant Secretary of Defense for Energy, Installations,
and Environment)

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602 4843602
Date: 2018.02.05 18:00:51
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Alison A. Dalsimer
Director, DoD Natural Resources Program

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

J. U.S. Army Corps of Engineers-Civil Works

**WHITTEN.CHELSEA.M.
1139493768**

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DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,
ou=USA, cn=WHITTEN.CHELSEA.M.1139493768
Date: 2017.07.12 16:18:36 -05'00'

Chelsea Whitten
Lead Contract Specialist
ERDC Contracting Office

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

K. The Curators of the University of Missouri (HOST)




Michelle L. Leaton
Assistant Pre-Award Manager & Authorized Signer
00043206

10/19/2017

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

L. Drake University



Mary Pat Wohlford, Ph.D.
Director, Sponsored Programs and Grants Management

7/31/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

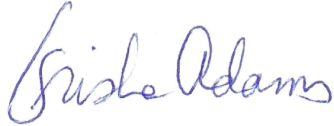
M. Indiana University



Stephen A. Wolter
Executive Director, Eppley Institute for Parks and Public Lands

07/17/2017

Date



Trisha Adams
Assistant Director of Research Contracting

8/29/17

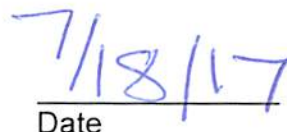
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

N. Iowa State University



Tammy Polaski
Associate Director
Office of Sponsored Programs Administration



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

O. Lincoln University



Mr. Michael Middleton
Interim President

09/14/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

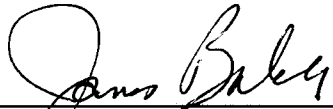
P. Southern Illinois University

Sonjie Schwartz 7-14-17
Sonjie Schwartz, Associate Director, Office
of Sponsored Projects Administration for
Randy J. Dunn, President, Southern Illinois
University

7-14-17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Q. Missouri State University



Dr. James Baker
Vice President, Research and Economic Development

7-25-17

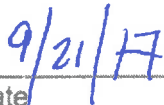
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

R. The Board of Trustees of the University of Illinois



Avijit Ghosh
Interim Comptroller



Date

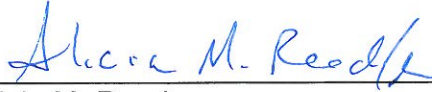
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

S University of Iowa

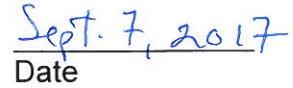
<p>DocuSigned by: <i>Wendy Beaver</i> 7A3F87C14F894DB...</p>	<p>7/27/2017</p>
<p>_____ Wendy Beaver Executive Director Division of Sponsored Programs Sponsored Programs, University of Iowa, 2 Gilmore Hall, Iowa City, IA 522</p>	<p>_____ Date</p>

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

T. University of Kansas

A handwritten signature in blue ink that reads "Alicia M. Reed". The signature is written in a cursive style and is positioned above a horizontal line.

Alicia M. Reed
Interim Assistant Vice Chancellor
Office of Research

A handwritten date in blue ink that reads "Sept. 7, 2017". The date is written in a cursive style and is positioned above a horizontal line.

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

U. University of Minnesota



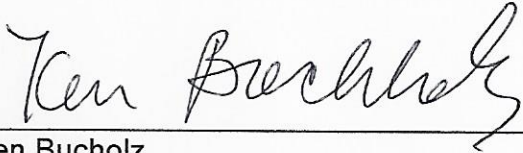
Kevin McKoskey
Director
Office of Sponsored Projects Administration



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

V. National Audubon Society, Inc. dba Audubon Center at Riverlands



Ken Bucholz
Director, Audubon Center at Riverlands

7-31-17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

W. National Audubon Society, Inc. dba Audubon Minnesota



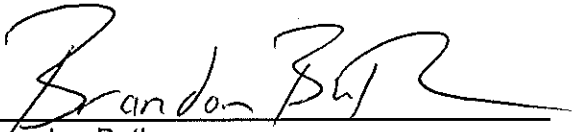
Molly Pederson
Executive Director

8/1/17

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

X. Conservation Federation of Missouri

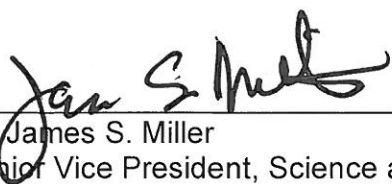


Brandon Butler
Executive Director

7-17-17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Y. Missouri Botanical Garden

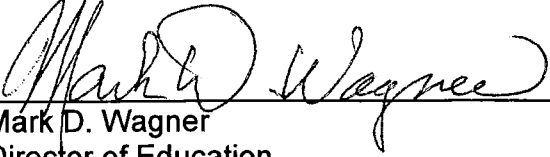


Dr. James S. Miller
Senior Vice President, Science and Conservation

31 July 2017
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Z. National Mississippi River Museum and Aquarium

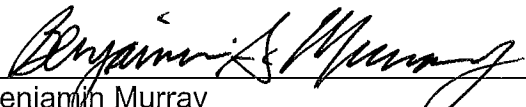


Mark D. Wagner
Director of Education

7/18/2017
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

AA. St. Mary's University of Minnesota



Benjamin Murray
Vice President for Financial Affairs

07/25/2017
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

BB. University of Notre Dame



Greg Luttrell
Director, Research Contracts

07/14/2017

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

CC. Winona State University



Charla S. Miertschin
Dean, College of Science and Engineering

07/31/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

DD. National Great Rivers Research and Education Center



Dale T. Chapman, EdD
President, Lewis and Clark Community College
Chair, National Great Rivers Research and Education Center

7-14-17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

EE. University of Memphis



Andrew Meyers
Vice President, Research and Sponsored Programs

7/31/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

FF. Southeast Missouri State University



Kathy M Mangels
Vice President Finance and Administration



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

GG. Saint Louis University

Kevin S. Leslie

Digitally signed by Kevin S. Leslie
DN: cn=Kevin S. Leslie,
email=kleslie4@slu.edu, o=Saint Louis
University
Date: 2017.07.28 16:54:20 -05'00'

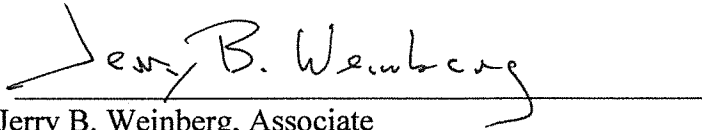
Kevin S. Leslie, JD
Assistant Director, OSPA

July 28, 2017

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

HH. Southern Illinois University Edwardsville

A handwritten signature in black ink that reads "Jerry B. Weinberg". The signature is written in a cursive style and is positioned above a horizontal line.

Jerry B. Weinberg, Associate
Provost for Research and Dean of
the Graduate School for
Randall Pembroke, Chancellor

7/6/17
Date