

## CURRICULUM VITAE

**NAME:** Scott L. Collins

**DATE AND PLACE OF BIRTH:** 28 October 1952, Ipswich, Massachusetts

**CURRENT ADDRESS:** Department of Biology  
University of New Mexico  
Albuquerque, NM 87131  
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<http://collins.lternet.edu/>

**FIELD AND SPECIALIZATION:** Community ecology, grassland ecology, aridland ecosystems, ecological impacts of climate change on grasslands

### **EDUCATION:**

- 1981 University of Oklahoma, Ph.D. - Botany  
Dissertation: Habitat relationships and habitat variability in the wood warblers (Parulidae).
- 1977 Miami University, M.S. - Botany  
Thesis: Tree species dynamics in the arbor vitae community of Cedar Bog, Champaign County, Ohio.
- 1975 Wittenberg University, B.A. - Biology

### **PROFESSIONAL EXPERIENCE:**

- 2016- Distinguished Professor, University of New Mexico
- 2012- Regents' Professor, University of New Mexico
- 2012- Loren Potter Chair of Plant Ecology, Department of Biology, UNM
- 2003- Professor of Biology, University of New Mexico
- 2003-14 Principal Investigator, Sevilleta LTER Program
- 2001- Adjunct Professor, School of Life Sciences, Arizona State University
- 1998- Adjunct Professor, Division of Biology, Kansas State University
- 1995-01 Program Director, Long-term Ecological Research, NSF
- 1995-03 Adjunct Professor, Department of Zoology, University of Maryland
- 1992-03 Program Director, Ecological Studies, National Science Foundation
- 1991-94 Associate Professor of Botany, University of Oklahoma
- 1988-90, Visiting Assistant Professor, University of Minnesota Forestry and  
1992 Biological Station (summer)
- 1985-91 Assistant Professor of Botany, University of Oklahoma
- 1984 Postdoctoral Fellow, Dr. Ralph E. Good, Rutgers University
- 1981-83 Visiting Assistant Professor of Botany, University of Oklahoma
- 1981 Postdoctoral Research Associate, Dr. Bernd Heinrich, University of Vermont
- 1979-81 Research Assistant, Dr. Paul G. Risser, University of Oklahoma
- 1978 Summer Research Assistant, Oklahoma Natural Heritage Program

1977-79 Teaching Assistant, Botany Department, Miami University

**HONORS AND AWARDS:**

Chair, LTER Science Council and Executive Board 2011-2014  
Regents' Professor, University of New Mexico 2012-2016  
Loren Potter Chair of Plant Ecology, University of New Mexico 2012-  
Fellow, American Association for the Advancement of Science  
President, Ecological Society of America 2012-2013  
Vice President for Public Affairs, Ecological Society of America 2013-2014  
Fellow, Ecological Society of America  
Distinguished Professor, University of New Mexico 2016-  
Editor in Chief, *BioScience* 2016-  
Distinguished Service Citation, Ecological Society of America, 2018  
University Distinguished Lecture Award – University of New Mexico, 2019

**COURSES TAUGHT:**

Plant Ecology (BOT 3454, Univ Oklahoma)  
General Biology (non-science majors, BOT 1045, Univ Oklahoma)  
General Botany (BOT 1114, Univ Oklahoma)  
Plant Community Ecology (BOT 6484, Univ Oklahoma, BIO 475/575 UNM)  
Boreal Flora (Univ Minnesota Forestry and Biological Station)  
Community Structure and Function (U Minn. Forestry & Biological Station)  
Graduate seminars (various topics)(Univ Oklahoma)  
Ecology and Evolution (BIO 203, UNM)  
Ecological and Evolutionary Genomics (BIO 410/510, UNM)  
Ecosystem Dynamics (BIO 405/505, UNM)  
Ecosystem Ecology (BIO 514, UNM)  
Field Ecology (BIO 515, UNM)  
Graduate Core Ecology (BIO 516, UNM)  
Population and Community Ecology (BIO 423/523 ASU)  
Introductory Ecology Lab (BIO 321, ASU)  
Fundamentals of Ecology (BIO 320, ASU)  
Principles of Ecology (BIO409/509, UNM)

**ADMINISTRATIVE DUTIES AT THE NATIONAL SCIENCE FOUNDATION (1992-2003):**

Program Management Activities:

- Program Director - Ecology Program
  - Organize proposal review panels
  - Determine proposal declines, awards and award budgets
  - Management of overall program annual budget of \$9.35 million
  - Communication with investigators
- Program Director - Long-term Ecological Research Network
  - Organize proposal review panels
  - Coordinate site visits to evaluate research and management at LTER sites

- Establish and implement policy goals for LTER Network
- Serve as interagency liaison for LTER Network
- Management of overall program annual budget of \$13.7 million
- Program Director - Integrated Research Challenges (IRCEB), an interdisciplinary funding opportunity in ecological and evolutionary biology (annual budget \$12.0 million)
- Program Director - NEON, the National Environmental Observatory Network.
- Served as Technical Coordinator for:
  - The cooperative funding agreement between NSF and UC Santa Barbara for the National Center for Ecological Analysis and Synthesis
  - The cooperative funding agreement between NSF and Michigan State University for the Center for Microbial Ecology, a Science and Technology Center
  - The cooperative funding agreement between NSF and the University New Mexico for the LTER Network Office
- Program development (e.g., new research competitions)
  - Includes organization and planning of workshops, presentations at national meetings, etc.
  - Develop and implement policy on program management within NSF
  - Recruit and train rotators to serve as Program Directors in the Ecology Program
- Directorate for Biological Sciences representative for 2001-2002 STC competition

#### **INTERAGENCY ACTIVITIES WHILE AT NSF (1992-2003):**

- Committee on Environment and Natural Resources
- Subcommittee on National Environmental Monitoring and Research Network
- EPA-STAR interagency working group
- Interagency working group on Terrestrial Ecology and Global Change (TECO) competition (NSF, DoE, USDA, NASA, EPA)
- NSF-NIH Technical Advisory Group for International Cooperative Biodiversity Groups
- NSF-NIH working group on Biodiversity and the Ecology of Emerging Diseases
- LTER liaison for the Global Fiducials Program – a joint activity with the Intelligence community for use of classified remote sensing images for long-term ecological research

#### **PROFESSIONAL AFFILIATIONS:**

American Institute of Biological Sciences  
 Editorial Board Member, *BioScience* 1998-  
 Editor-in-Chief, *BioScience* 2016-  
 American Association for the Advancement of Science  
 Elected Fellow, AAAS 2012

## Ecological Society of America

Editorial Board Member, *Conservation Ecology* 1996-2003  
Vice Chair, Chair, Vegetation Section 2001-2003  
Vice Chair, Chair, Long-term Studies Section 2004-2008  
Member, ESA Visions Committee 2003-2004  
Member, ESA Rapid Response Team 2004-2012, 2015-  
Member, Cooper Award Committee 2004-2006  
Chair, Editor-in-Chief of *Ecology* Review Committee 2004, 2009  
Chair, Publications Committee 2006-2011  
Chair, USGS GAP Analysis Review Panel 2008  
Editorial Board Member, *Ecosphere* 2012-2016  
Editorial Board Member, *Ecology/Ecological Monographs* 2017-  
President-Elect, President, Past-President Ecological Society of America  
2011-2014  
Vice President for Public Affairs 2014-2015  
Publication Transitions Committee 2014-2015  
Elected Fellow, Ecological Society of America 2016  
ESA Distinguished Service Citation 2018  
Member, Nominations Committee 2020

## International Association for Vegetation Science

Secretary, North American Section 1991-1993  
Associate Editor, *Journal of Vegetation Science* 1992-1996  
Book Review Editor, *Journal of Vegetation Science* 2004-2012

## American Geophysical Union

## British Ecological Society

Editorial Board Member, *Journal of Ecology* 2005-2008

## International Association for Landscape Ecology

Secretary, North American Section 1992-1994

Editorial Board Member, *Community Ecology* 2000-2003

Editorial Board Member, *Oecologia* 2008-2016

## LTER Network

Member, LTER Science Council 2003-2011  
Member, LTER Executive Committee 2004-2007 (elected)  
Chair-elect (2010), Chair (2011-2014) LTER Science Council and Executive  
Board

President, Association of Ecosystem Research Centers 2005

## National Ecological Observatory Network

Member, STEAC2 2016-2019

Member, Observatory Director/Chief Scientist Search Committee 2017

INTECOL, Governing Board 2020-

## **GRADUATE STUDENTS:**

### University of Oklahoma

Sabine Klahr – MS (University of Utah)

Susan Glenn – PhD (Gloucester County College)

Ernie Steinhauer – PhD (Massachusetts Audubon Society)

Bruce Hoagland – PhD (University of Oklahoma)  
Arizona State University  
Julie Ripplinger – PhD 2015 (co-advised with Janet Franklin)  
University of New Mexico  
Selene Báez - PhD 2008 (Escuela Politécnica Nacional, Quito, Ecuador)  
Laura (Calabrese) White – MS 2009 (nex+Gen Academy, Albuquerque)  
Michell Thomey – PhD 2012  
Sally Koerner – PhD 2012 (Assistant Professor, UNC Greensboro)  
Laura Ladwig – PhD 2014 (Assistant Professor, U Wisconsin-Oshkosh)  
Matt Petrie – PhD 2014 (Assistant Professor, UNLV)  
Kina Murphy – PhD 2016 (Environmental Consultant, WCS)  
Martina Suazo – MS 2016 (Plant Ecology Tech, Valles Caldera Natl Park)  
Sydney Jones – PhD 2017  
Jenny Noble – PhD 2017 (El Dorado High School, Albuquerque)  
Alec Carrigy – MS 2017 (Alberta, Canada)  
Catherine Cumberland – PhD 2019 (co-advised with Ken Whitney)  
Andrea Lopez – MS 2020 (Lab Tech, NMSU)  
Alesia Hallmark – PhD 2020 (NEON Postdoc)  
Brooke Wainwright – MS 2021  
Renee Brown – PhD current  
Timothy Ohlert – PhD current  
Elizabeth Fain – MS current  
Mariah Patton – PhD current (co-advised with Jennifer Rudgers)  
Juan Camacho – MS current  
Sasha Escamilla – MS current

**OTHER SYNERGISTIC ACTIVITIES:**

2020 INTECOL Governing Board  
2018- Faculty Affiliate, Global Drylands Center at Arizona State Univ  
2014-2017 Co-Leader, NCEAS Community Dynamics Working Group  
2010-2012 Faculty Co-Advisor for SEEDS Chapter at Arizona State Univ  
2009- Faculty Member, F1000Opinions  
2008- PI, Sevilleta REU Sites Program  
2008 Hosted Regional SEEDS workshop at the Sevilleta LTER  
2008 Hosted Regional LTER Symposium at UNM  
2007-2008 NCEAS-sponsored Distributed Graduate Seminar  
2005-2007 Lead PI for the LTER Planning Process  
2005 Hosted annual SEEDS workshop at the Sevilleta LTER  
2005- Faculty Advisor, UNM Biology SEEDS Chapter  
2003-2004 NCEAS KNB Working group: North America-South Africa grasslands

**EXTERNAL EXAMINER:**

Bengt-Gunner Johanson – PhD, University of Umea, Sweden (1993)  
Adrian Pyrke – PhD, University of Tasmania (1994)  
Kristin Svavarsdottir – PhD, Lincoln University, New Zealand (1995)  
Andrew Zacharek – MS, University of Tasmania (1996)

Matthew Appleby – MS, University of Tasmania (1998)  
Andrew MacDougall – PhD, University of British Columbia (2004)  
Michael Voysey – MS, University of Pretoria (2018)

**BIOLOGY DEPARTMENT AND UNM COMMITTEES:**

Biology Department Cell Biology Search Committee (2007)  
Biology Department Graduate Student Selection Committee (2004-2006;  
2015-2021; Chair, 2016, 2018, 2019, 2020)  
Biology Department Diversity, Equity and Inclusion Committee (2021; Co-  
Chair)  
Biology Department Tenure and Promotion Committee (2007-2009; 2015-  
2017; Chair, 2009)  
Biology Department Faculty Review Committee (2014-2015)  
Biology Graduate Student Association Faculty Rep (2008-2010)  
University Executive Research Advisory Committee (2008-2013; Chair  
2011-2012)  
Popejoy Dissertation Award Committee (2009)  
Chair, Senior Ecologist Search Committee (2011-2012), Department of  
Biology  
Member, Vice President for Research and Economic Development Search  
Committee (2012-2013)  
Member, Regent's Professor Selection Committee, College of Arts and  
Sciences (2013)  
Member, Vice President for Research Strategic Advisory Committee (2014)  
Chair, Quantitative Ecologist Search Committee (2013-2014), Department  
of Biology  
Member, Distinguished Professor Selection Committee, Provost's Office  
(2017, 2018, 2020)  
College of Arts and Sciences Sabbatical Committee (2020)  
Member, Aquatic Ecologist Search Committee (2021), Department of  
Biology

**RESEARCH INTERESTS:**

Plant community dynamics, gradient models and gradient structure, the role  
of disturbance in communities, fire ecology, patch dynamics, grassland  
ecology, analysis of species distribution and abundance, local-regional  
interactions, productivity-diversity relationships, dynamics of aridland  
ecosystems, climate change impacts on aridland ecosystems

**GRANTS:**

2021 Collaborative Research: Understanding spatiotemporal dynamics of plant-  
soil feedbacks: Consequences for shrub-grass interactions in a dryland  
ecotone. NSF - \$307,495 (6/1/2021-5/31/2025) PI: Jennifer Rudgers,  
CoPI: Scott Collins, Catherine Harris.

- 2020 REU Sites: Population, community and ecosystem dynamics in the Northern Chihuahuan Desert. NSF - \$288,764 (2/1/2020-1/31/2023) PI: Scott Collins.
- 2019 LTREB: Community reordering alters ecosystem processes in desert grassland. NSF - \$489,000 (5/15/2019-4/30/2024) PI: Scott Collins, CoPI: Jennifer Rudgers.
- 2019 COLLABORATIVE RESEARCH: LTREB RENEWAL: The role of ecological heterogeneity in a long-term grassland restoration experiment. NSF - \$600,000 (7/15/2019-6/30/2024) PI: Sara Baer, CoPI: John Blair, Scott Collins.
- 2019 Quantifying the microbial contribution to community recovery from drought. NSF - \$1,009,923 (8/15/2019-7/31/2023) PI: Jennifer Rudgers, CoPI: Scott Collins.
- 2019 Seasonal fire frequency and carbon sequestration in aridland ecosystems. US Forest Service RMRS - \$35,000 (6/1/19-12/31/21); PI: Scott Collins
- 2018 The Sevilleta Meteorological Network: Enhancing and expanding technological infrastructure to assess climate variability in dryland ecosystems. NSF - \$204,025 (9/1/2018-8/31/2022) PI: Renée Brown, CoPIs: Scott Collins, Don Natvig
- 2017 Quantifying the effects of species range shifts and management of post-fire recovery on regional carbon dynamics in a changing climate. USDA - \$850,000 (7/1/2017-6/30/2020) PI: Matthew Hurteau, CoPIs: Marcy Litvak, Dan Krofchek, Scott Collins
- 2017 REU Site: Dynamics of aridland ecosystems in the northern Chihuahuan Desert. NSF - \$298,462 (2/1/2017-1/31/2020) PI: Scott Collins, CoPI: Amaris Swann
- 2017 RAPID: Impact of exceptional drought on transformation of a South African savanna grassland. NSF - \$70,439 (1/1/2017-12/31/2017) PI: Melinda Smith, CoPIs: Scott Collins, Alan Knapp, Sally Koerner, Deron Burkepile
- 2015 Collaborative Research: Parsing the effects of host specificity and geography on plant-fungal symbioses under climate change. NSF - \$1,089,436 (UNM portion \$406,128) (6/1/15-5/31/19); UNM PI: Jennifer Rudgers, CoPI: Scott Collins
- 2015 Sevilleta LTER V: Abiotic pulses and constraints: effects on dynamics and stability in an aridland ecosystem. NSF - \$1,960,000 (4/1/15-

- 3/31/18); PI: Will Pockman, CoPIs: Scott Collins, Cliff Dahm, Marcy Litvak, Kristin Vanderbilt
- 2015 Interannual variability in net primary production. US Forest Service RMRS - \$92,999 (1/1/15-12/31/19); PI: Scott Collins
- 2013 Dissertation Research: Semiarid soil microbial response to global change. NSF - \$19,479 (4/15/13-4/14/15). PI: Laura Ladwig, CoPI: Scott Collins.
- 2013 Collaborative Research (U Wisconsin, UNM, UCSB): ABI Development: A toolbox for analysis of long-term ecological dynamics using the Kepler Workflow System. NSF - \$887,101 (UNM portion \$272,160) (4/15/13-3/31/17); UNM PI: Scott Collins.
- 2013 Sevilleta LTER V: Abiotic pulses and constraints: effects on dynamics and stability in an aridland ecosystem. NSF - \$1,960,000 (1/1/13-12/31/14) plus supplements (2014 - \$12,000); PI: Scott Collins, CoPIs: Cliff Dahm, Marcy Litvak, Will Pockman, Kristin Vanderbilt.
- 2012 Student research and teaching improvements at the Sevilleta Field Station. NSF - \$96,750. (9/1/12-8/31/13). PI: Don Natvig, CoPIs: Scott Collins, Jennifer Johnson.
- 2012 Collaborative Research (Southern Illinois U, Kansas State, UNM): LTREB: The role of ecological heterogeneity in a long-term grassland restoration experiment. NSF – \$450,000 (7/1/12-6/30/17); PI: Sara Baer, CoPIs: John Blair, Scott Collins.
- 2012 Collaborative Research (CSU, UNM, U Oklahoma): Grassland sensitivity to climate change at local to regional scales: assessing the role of ecosystem attributes versus environmental context. NSF - \$3,755,556 (UNM portion \$1,079,257 plus \$16,000 for REU supplements) (1/15/12-12/31/18); UNM PI: Scott Collins, CoPI: Will Pockman.
- 2011 Long-term carbon dynamics in aridland ecosystems. US Forest Service RMRS - \$148,000 (6/1/10-5/31/15); PI: Scott Collins, CoPIs: Marcy Litvak, Paulette Ford, Deb Finch, Matt Reeves.
- 2011 REU Sites: Pulse dynamics research in aridland ecosystems. NSF - \$565,896 (4/1/11-3/1/17); PI: Scott Collins, CoPI: Les McFadden.
- 2010 ULTRA-Ex: Collaborative research: Land and Water Use Decision-Making and Ecosystem Services along a Southwestern Socio-Ecological Gradient. NSF - \$120,000. (9/1/10-6/30/14). PI: Scott Collins, CoPIs: Kristine Grimsrud, Cliff Dahm, Kristin Vanderbilt.



- 2010 RAPID: Ecosystem reconstruction under climate change conditions following fire. NSF - \$150,055. (6/1/10-5/31/12). PI: Scott Collins, CoPIs: Marcy Litvak, Will Pockman, Bob Sinsabaugh, Blair Wolf.
- 2010 Student research and teaching improvements at the Sevilleta Field Station. NSF - \$95,290. (10/1/09-9/30/10). PI: Don Natvig, CoPI: Scott Collins.
- 2009 Roots with a view: the eukaryotic microbial metatranscriptome of blue grama grass rhizosphere soils shows the way to transformational lignocellulose degrading technologies and elucidates carbon flux through aridland ecosystems. DOE Joint Genome Institute, Community Sequencing Program, 600 MB of sequencing (1/1/10-12/31/11). PI: A.J. Powell, CoPIs: B. Simmons, D.O. Natvig, S.L. Collins, R.L. Sinsabaugh, A. Porras-Alfaro, D. Martinez, C. Detter, R.A. Dean, J. Magnuson, R. Berka.
- 2009 Dissertation Research: Effects of global climate change, loss of mega-herbivore biodiversity, and altered fire regimes on savanna grassland ecosystems. NSF - \$14,860 (5/1/09-4/30/11). PI: Sally Koerner, CoPI: Scott Collins.
- 2009 Collaborative Research (Yale, CSU, UNM, KSU): Convergence and contingencies in savanna grasslands (renewal). NSF - \$807,000 (UNM portion \$155,038) (2/1/09-1/31/12); UNM PI: Scott Collins.
- 2008 Collaborative research (UNM and UVa): Do vegetation-microclimate feedbacks promote shrub encroachment in the southwestern United States? NSF - \$553,989 (UNM portion \$289,008) (2/1/08-1/31/11); UNM PI: Marcy Litvak, CoPIs: Will Pockman, Scott Collins.
- 2008 Sevilleta LTER REU Sites Program. NSF - \$246,705 (3/1/08-2/28/11); PI: Scott Collins, CoPI: Les McFadden.
- 2008 Ecosystem consequences of precipitation extremes in semiarid grassland and shrubland. DoE/NICCR - \$374,829 (4/1/08-8/31/12); PI: Will Pockman, CoPIs: Scott Collins, Eric Small-Tilden.
- 2007 Renovations to increase residence capacity at the UNM Sevilleta Field Research Station. NSF - \$250,000 (10/15/07-10/14/10); PI: Scott Collins, CoPIs: Don Natvig, Will Pockman, Tim Lowery, Mike Friggs.
- 2006 Sevilleta LTER IV: Abiotic pulses and constraints: effects on dynamics and stability in an aridland ecosystem. NSF - \$4,920,000 (11/1/06-10/31/12) plus supplements (2008 - \$101,163; 2009 - \$145,862; 2010 -

- \$112,221; 2011 - \$125,000; 2012 - \$140,000); PI: Scott Collins, CoPIs: Cliff Dahm, Marcy Litvak, Will Pockman, Kristin Vanderbilt.
- 2006 Track 1, GK-12: E-MRGE: Ecohydrogeology in the Middle Rio Grande Environment. NSF - \$1,663,165 (5/1/06-12/31/10); PI: Scott Collins, CoPIs: Laura Crossey, Douglas Earick.
- 2006 Enabling distributed network sensing of arid ecosystem adaptation resulting from global climate change. UNM-LANL - \$90,000 (6/1/2006-8/31/2007); PI: Scott Collins, Luis Bettencourt; CoPIs: Aric Hagberg, Alejandro Aceves, Gabriel Huerta.
- 2005 Global change effects on grass-shrub interactions in an arid ecosystem. NSF - \$297,494 (7/15/05-6/30/09); PI: Joe Fargione, CoPIs: Scott Collins, Will Pockman.
- 2005 The nitrogen cycle of a semiarid grassland: a fungal loop? NSF - \$120,000 (7/1/05-6/30/06); PI: Robert Sinsabaugh, CoPIs: Scott Collins, Mike Allen, David Hanson.
- 2005 Collaborative Research (UNM, CSU, KSU, Yale): Convergence and contingencies in savanna grasslands. NSF - \$830,000 (UNM portion \$60,000) (9/1/05-8/31/08); UNM PI: Scott Collins.
- 2005 LTREB: Long-term ecosystem responses to more extreme precipitation patterns and warming. NSF - \$300,000 (5/1/05-4/30/10); PI: John Blair, CoPIs: Alan Knapp, Phil Fay, Scott Collins, Melinda Smith.
- 2004 Preparing the LTER Network for collaborative science, education and synthesis: a planning proposal. NSF - \$1,135,461 (9/1/04-3/31/08); PI: Scott Collins, Co-PIs: Barbara Benson, Dan Childers, Allison Whitmer.
- 2003 The Sevilleta Field Research Station: Infrastructure enhancements for high-quality water resources and wireless data transmission. NSF - \$76,270+\$25,424 UNM Match (3/1/04-10/31/08); PI: Don Natvig, CoPIs: Scott Collins, Will Pockman, Robert Parmenter, Cliff Dahm.
- 2003 Sevilleta Long-term Ecological Research Program. NSF - \$3,177,024 with supplements (11/1/02-10/31/08); PI: Scott Collins, Co-PIs: Will Pockman, Blair Wolf, Jim Gosz, Deb Peters, Robert Parmenter.
- 1997 Evaluating the role of resource heterogeneity in restoring grasslands. NSF - \$178,196 (4/1/97 to 9/30/00); PI: Alan Knapp, CoPIs: John Blair, Scott Collins.

- 1995 Diversity and stability in tallgrass prairie vegetation. \$8,837 - Kansas State University subcontract for NSF funded Long-term Ecological Research.
- 1994 Patterns of species diversity in the Konza Prairie landscape. \$8,837 - Kansas State University subcontract for NSF funded Long-term Ecological Research.
- 1994 Experimental analysis of species percolation through communities. NSF - \$147,000 (1/1/94 to 12/31/96); PI: Susan Glenn, CoPI: Scott Collins).
- 1992 Vegetation-environment relationships at Konza Prairie. \$7,957 - Kansas State University subcontract for NSF funded Long-term Ecological Research.
- 1991 Travel grant to Hungary to develop cooperative research. \$1,200 - National Science Foundation Division of International Programs.
- 1991 Interactive effects of fire and grazing on community dynamics at Konza Prairie. \$7,599 - Kansas State University subcontract for NSF funded Long-term Ecological Research.
- 1990 Spatial and temporal analysis of species abundance and distribution. \$12,513 - NSF PI: Scott Collins, CoPI: Susan Glenn.
- 1990 SGER: Phase-space ordination and the complexity of successional trajectories. \$18,674 – NSF PI: Scott Collins, CoPIs: Susan Glenn, Steward Pickett.
- 1990 Vegetation heterogeneity in the Konza Prairie landscape: patterns in space and time. \$10,569 - Kansas State University subcontract for NSF funded Long-term Ecological Research.
- 1989 Survey of permanent plots at Konza Prairie Research Natural Area. \$4,443 - Kansas State University subcontract for NSF funded Long-term Ecological Research.
- 1988 Experimental analysis of patch dynamics in tallgrass prairie vegetation. NSF Doctoral Dissertation Improvement Grant. \$2,689. PI: Susan Glenn, CoPI: Scott Collins.
- 1988 Effects of habitat structure on survival and growth of tree seedlings in hemlock-hardwood forest. Edmund Niles Huyck Preserve, Inc. \$1,550.

- 1987 Plant community dynamics on soil disturbances on burned and unburned tallgrass prairie. Junior Faculty Summer Research Fellowship. University of Oklahoma. \$4,000.
- 1987 Habitat structure of tree seedlings in hemlock-hardwood forest. Edmund Niles Huyck Preserve, Inc. \$1,600.
- 1985 Plant colonization of small-scale disturbances in a native prairie. Junior Faculty Summer Research Fellowship. University of Oklahoma. \$3,500.
- 1984 Effects of ecosystem fragmentation on forest vegetation in the New Jersey Pine Barrens. Victoria Foundation. \$20,000. PI: Ralph Good, CoPI: Scott Collins.

#### **JOURNAL PUBLICATIONS:**

Collins, S.L. and W.H. Blackwell. 1979. Bassia (Chenopodiaceae) in North America. **Sida** 8: 57-64.

Collins, S.L., J.L. Vankat and J.V. Perino. 1979. Potential tree species dynamics in the arbor vitae association of Cedar Bog, a west-central Ohio fen. **Bulletin of the Torrey Botanical Club** 106: 290-298.

Collins, S.L., P.G. Risser and E.L. Rice. 1981. Ordination and classification of mature bottomland forests in northcentral Oklahoma. **Bulletin of the Torrey Botanical Club** 108: 152-165.

Collins, S.L. 1981. A comparison of nest-site and perch-site vegetation structure for seven species of warblers. **Wilson Bulletin** 93: 542-547.

Collins, S.L., J.V. Perino and J.L. Vankat. 1982. Woody species and microtopography in the bog meadow association of Cedar Bog, a west-central Ohio fen. **American Midland Naturalist** 108: 245-249.

Adams, D.E., R.C. Anderson and S.L. Collins. 1982. Differential response of woody and herbaceous species to summer and winter burning in an Oklahoma grassland. **Southwestern Naturalist** 27: 55-61.

Collins, S.L., F.C. James and P.G. Risser. 1982. Habitat relationships of wood warblers (Parulidae) in northern central Minnesota. **Oikos** 39: 50-58.

Heinrich, B. and S.L. Collins. 1983. Caterpillar leaf damage and the game of hide-and-seek with birds. **Ecology** 64: 592-602.

Collins, S.L. and D.E. Adams. 1983. Succession in grasslands: thirty-two years of change in a central Oklahoma tallgrass prairie. **Vegetatio** 51: 181-190.

Collins, S.L. 1983. Geographic variation in habitat structure of the Black-throated green Warbler (Dendroica virens). **Auk** 100: 382-389.

Collins, S.L. 1983. Geographic variation of habitat structure for the wood warblers in Maine and Minnesota. **Oecologia** 59: 246-252.

Collins, S.L. and G.E. Uno. 1983. The effect of early spring burning on vegetation in Buffalo wallows. **Bulletin of the Torrey Botanical Club** 110: 474-481.

Polley, H.W. and S.L. Collins. 1984. Relationships between vegetation and environment in buffalo wallows. **American Midland Naturalist** 112: 178-186.

Dooley, K.L. and S.L. Collins. 1984. Ordination and classification of western oak forests in Oklahoma. **American Journal of Botany** 71: 1221-1227.

Collins, S.L. and G.E. Uno. 1985. Seed predation, seed dispersal and disturbance: a comment. **American Naturalist** 125: 866-872.

Collins, S.L. and S.C. Barber. 1985. The effects of disturbance on diversity in mixed grass prairie. **Vegetatio** 64: 87-94.

Collins, S.L. and R.E. Good. 1987. The seedling regeneration niche: habitat structure of tree seedlings in oak-pine forest. **Oikos** 48: 89-98.

Pickett, S.T.A., S.L. Collins and J.J. Armesto. 1987. A hierarchical consideration of models and mechanisms of succession. **Vegetatio** 69: 109-114.

Collins, S.L. and R.E. Good. 1987. Canopy-ground layer relationships in New Jersey Pine Barrens oak-pine forests. **American Midland Naturalist** 117: 280-288.

Pickett, S.T.A., S.L. Collins and J.J. Armesto. 1987. Models, mechanisms and pathways of succession. **Botanical Reviews** 53: 335-371.

Collins, S.L. 1987. Interaction of disturbances in tallgrass prairie: a field experiment. **Ecology** 68: 1243-1250.

Uno, G.E. and S.L. Collins. 1987. Plant succession on granite outcrops in southwestern Oklahoma. **Bulletin of the Torrey Botanical Club** 114: 387-392.

Collins, S.L., J.A. Bradford and P.L. Sims. 1988. Succession and fluctuation in Artemisia dominated grassland. **Vegetatio** 89-99.

Gibson, D.J., S.L. Collins and R.E. Good. 1988. Effects of ecosystem fragmentation on vegetation in oak-pine forests in the New Jersey Pine Barrens. **Forest Ecology and Management** 25: 105-122.

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Collins, S.L. 2020. Changing disturbance regimes: The new normal? **BioScience**  
70: 839.

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#### **INVITED PRESENTATIONS:**

- 1982 Illinois Natural History Survey
- 1982 University of Arkansas
- 1986 Oklahoma State University
- 1987 USDA-ARS Range Research Station, Woodward, Oklahoma
- 1988 University of Minnesota Forestry and Biological Station
- 1989 University of West Florida  
University of Minnesota Forestry and Biological Station
- 1990 University of Nebraska
- 1991 Hungarian Academy of Sciences, Vacratot, Hungary
- 1992 University of Colorado
- 1993 Miami University  
University of Umea, Sweden  
University of Maryland
- 1994 Penn State University  
University of Arizona  
University of Virginia, Blandy Experimental Farm  
University of Kansas  
Colorado State University
- 1995 Arizona State University  
University of Maryland

1996 University of California-Riverside  
Kansas State University

1997 Syracuse University  
Texas A&M University  
University of Kyoto  
University of Hokkaido

1998 University of Virginia, Blandy Experimental Farm  
Northern Arizona University

2000 University of Washington  
University of Vermont  
University of California-Davis  
University of Nebraska

2001 Utah State University  
Desert Research Institute  
Rutgers University

2002 Cornell University  
Arizona State University  
University of New Mexico

2004 Michigan State University  
University of California-Irvine

2006 Miami University  
St Olaf's College  
Colorado State University

2008 University of Rhode Island  
Kellogg Biological Station  
University of Oklahoma

2009 University of Arizona  
Washington University  
University of Idaho

2010 University of Wisconsin  
Texas Tech University

2011 Institute of Ecological Botany, Vacratot, Hungary  
Northern Arizona University

2012 University of Virginia  
Chicago Botanic Garden

2013 Georgetown University  
Southern Illinois University  
University of New Mexico (Invited Plenary Speaker for Research Day)

2014 Texas A&M University  
Colorado State University

2015 University of New Mexico  
Arizona State University

2017 Lanzhou University, Lanzhou, China

2018 Institute of Botany, Chinese Academy of Sciences, Beijing

2019 New Mexico Tech  
University of Nevada, Las Vegas

**PAPERS PRESENTED AT SCIENTIFIC MEETINGS:**

Ecological Society of America: 1980(2), 1981, 1982, 1983, 1984, 1985, 1986(2), 1987(2), 1988(2), 1989(3), 1990, 1991(4), 1992, 1993(2), 1994(3), 1995(3), 1996, 1997, 1998(2), 1999(2), 2000, 2001(2), 2002(2), 2003(3), 2004(5), 2005(6), 2006(5), 2007(9), 2008(5), 2009(7), 2010(5), 2011(9), 2012(6), 2013(9), 2014(6), 2015(9), 2016(6), 2017(7), 2018(9), 2019(3), 2020(14)

North American Benthological Society: 2004, 2005

Southwestern Association of Naturalists: 1978, 1980(2), 1981(3), 1982, 1983, 1986, 1987(3)

Botanical Society of America: 1985, 1988

British Ecological Society: 1985, 1987, 2008, 2014

International Association for Vegetation Science: 1985, 1987, 1991(2), 1998, 2009, 2011(2), 2013(3), 2018(Plenary)

International Botanical Congress: 1987

Tenth North American Prairie Conference: 1986

Oklahoma Academy of Science: 1977, 1979(2), 1982, 1989

New Jersey Academy of Science: 1984

US-International Association for Landscape Ecology: 1989, 1990(2), 1994, 1996

IALE World Congress: 1991(2)

Landscape Ecology and Regional Planning: 1990

International Symposium on Community Ecology & Conservation Biology: 1994

Society for Conservation Biology: 2007

American Geophysical Union: 2007, 2008(2), 2009, 2010, 2011, 2012, 2013(3), 2014(4), 2015(2), 2016(4), 2017(3), 2018(3), 2019(3), 2020(3)

Association of American Geographers 2010

European Geophysical Union 2015(2)