



## Harold Mooney

Paul S. and Billie Achilles Professor in Environmental Biology, Emeritus

### CONTACT INFORMATION

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### Bio

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#### BIO

Stanford ecologist Harold “Hal” Mooney is the Paul S. Achilles Professor of Environmental Biology, emeritus, in the School of Humanities and Science’s Department of Biology and senior fellow, emeritus, with the Stanford Woods Institute as well as the Freeman Spogli Institute for International Studies. Mooney helped pioneer the field of physiological ecology and is an internationally recognized expert on environmental sciences. Through his six-decade academic career, Mooney has demonstrated how plant species and groups of species respond to their environments and developed research methodologies for assessing how plants interact with their biotic environments. To date he has authored more than 400 scientific books, papers and articles.

Mooney’s recent research focuses on assessing the impacts of global environmental change on terrestrial ecosystems, especially on ecosystem function, productivity and biodiversity. Recent research includes studying the environmental and social consequences of industrialized animal production systems and examining factors that promote the invasion of non-indigenous plant species.

Mooney has played an international leadership role in numerous research settings, especially with problems related to biodiversity, invasive species, global warming and Mediterranean climates. In addition, he has been active in building up worldwide communities and networks of ecologists and scientists in other disciplines and arranging international conferences on the environment. He played a central role in the International Geosphere-Biosphere Program (IGBP), building up an international organization of scientists and having an influential part in setting the guidelines for the formulation of environmental policies. He also has advanced numerous international research programs as Secretary General and Vice-President of the International Council for Science (ICSU).

Mooney earned his Ph.D. from Duke University in 1960 and started as an assistant professor at UCLA that same year. In 1968 he was recruited to Stanford University, where he was later appointed the Paul S. Achilles Professor of Environmental Biology in the School of Humanities and Science’s Department of Biology. A senior fellow with the Stanford Woods Institute as well as the Freeman Spogli Institute for International Studies, Mooney has led a wide range of national and international scientific activities related to environment and conservation.

Notable roles included coordinating the 1995 Global Biodiversity Assessment, co-chairing the Assessment Panel of the 2005 Millennium Ecosystem Assessment, establishing and leading the Global Invasive Species Program and serving as lead review editor for the ongoing global assessment of the Intergovernmental Platform on Biodiversity and Ecosystem Services. His many accolades and awards include the 1990 ECI Prize in terrestrial ecology, the 1992 Max Planck Research Award in biosciences, the 1996 Eminent Ecologist Award from the Ecological Society of America, the 2000 Nevada Medal, the 2002 Blue Planet Prize, the 2007 Ramon Margalef Prize in Ecology, the 2008 Tyler Prize, the 2008 BBVA Foundation Award for Biodiversity Conservation, and the 2010 Volvo Environment Prize.

## ACADEMIC APPOINTMENTS

- Professor, Biology
- Emeritus Faculty, Acad Council, Natural Sciences
- Senior Fellow, Emeritus, Stanford Woods Institute for the Environment

## PROGRAM AFFILIATIONS

- Center for Latin American Studies

## PROFESSIONAL EDUCATION

- Ph.D., Duke University , Biology (1960)
- B.A., University of California, Santa Barbara , Biology (1957)

## Publications

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### PUBLICATIONS

- **A global test of ecoregions (vol 2, pg 1889, 2018) *NATURE ECOLOGY & EVOLUTION***  
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. L., Routh, D., San Juan, P. A., Mooney, et al  
2019; 3 (4): 708
- **Author Correction: A global test of ecoregions. *Nature ecology & evolution***  
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J. N., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. M., Routh, D., Juan, P. A., Mooney, et al  
2019
- **Tradeoffs in demographic mechanisms underlie differences in species abundance and stability. *Nature communications***  
Hallett, L. M., Farrer, E. C., Suding, K. N., Mooney, H. A., Hobbs, R. J.  
2018; 9 (1): 5047
- **A global test of ecoregions. *Nature ecology & evolution***  
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J. N., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. M., Routh, D., San Juan, P. A., Mooney, et al  
2018
- **Importing food damages domestic environment: Evidence from global soybean trade *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA***  
Sun, J., Mooney, H., Wu, W., Tang, H., Tong, Y., Xu, Z., Huang, B., Cheng, Y., Yang, X., Wei, D., Zhang, F., Liu, J.  
2018; 115 (21): 5415–19
- **The Millennium Ecosystem Assessment: Testing the Limits of Interdisciplinary and Multi-scale Science *Ecology, Economy and Society - Essays in Honour of Kanchan Chopra***  
Reid, W. V., Mooney, H. A.  
Springer, Singapore.2018: 49–61
- **Valuing Chaparral Ecological, Socio-Economic, and Management Perspectives Foreword *VALUING CHAPARRAL: ECOLOGICAL, SOCIO-ECONOMIC, AND MANAGEMENT PERSPECTIVES***  
Mooney, H. A., Underwood, E. C., Safford, H. D., Molinari, N. A., Keeley, J. E.  
2018: V-VII

- **Foreword** *Valuing Chaparral - Ecological, Socio-Economic, and Management Perspectives*  
Mooney, H. A.  
Springer.2018
- **The Shenzhen Declaration on Plant Sciences** *Uniting plant sciences and society to build a green, sustainable Earth JOURNAL OF SYSTEMATICS AND EVOLUTION*  
Crane, P. R., Ge, S., Hong, D., Huang, H., Jiao, G., Knapp, S., Kress, W., Mooney, H., Raven, P. H., Wen, J., Wu, W., Yang, H., Zhu, et al  
2017; 55 (5): 415–16
- **The Shenzhen Declaration on Plant Sciences** *Uniting plant sciences and society to build a green, sustainable Earth PHYTOKEYS*  
Crane, P. R., Ge, S., Hong, D., Huang, H., Jiao, G., Knapp, S., Kress, W., Mooney, H., Raven, P. H., Wen, J., Wu, W., Yang, H., Zhu, et al  
2017: 3–7
- **Socio-Environmental Systems (SES) Research: what have we learned and how can we use this information in future research programs** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Turner, B. L., Esler, K. J., Bridgewater, P., Tewksbury, J., Sitas, N., Abrahams, B., Chapin, F. S., Chowdhury, R. R., Christie, P., Diaz, S., Firth, P., Knapp, C. N., Kramer, et al  
2016; 19: 160-168
- **The Millennium Ecosystem Assessment: testing the limits of interdisciplinary and multi-scale science** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Reid, W. V., Mooney, H. A.  
2016; 19: 40-46
- **Toward a national, sustained U.S. ecosystem assessment.** *Science (New York, N.Y.)*  
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- **Government: Plan for ecosystem services.** *Science (New York, N.Y.)*  
Joppa, L. N., Boyd, J. W., Duke, C. S., Hampton, S., Jackson, S. T., Jacobs, K. L., Kassam, K. S., Mooney, H. A., Ogden, L. A., Ruckelshaus, M., Shogren, J. F.  
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- **National indicators for observing ecosystem service change** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
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2015; 35: 12-21
- **Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Bennett, E. M., Cramer, W., Begossi, A., Cundill, G., Diaz, S., Egoh, B. N., Geijzendorffer, I. R., Krug, C. B., Lavorel, S., Lazos, E., Lebel, L., Martin-Lopez, B., Meyfroidt, et al  
2015; 14: 76-85
- **The IPBES Conceptual Framework - connecting nature and people** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Diaz, S., Demissew, S., Carabias, J., Joly, C., Lonsdale, M., Ash, N., Larigauderie, A., Adhikari, J. R., Arico, S., Baldi, A., Bartuska, A., Baste, I. A., Bilgin, et al  
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2015; 347 (6225): 963-?
- **Sustainability. Systems integration for global sustainability.** *Science*  
Liu, J., Mooney, H., Hull, V., Davis, S. J., Gaskell, J., Hertel, T., Lubchenco, J., Seto, K. C., Gleick, P., Kremen, C., Li, S.  
2015; 347 (6225)
- **Ecosystems of California**  
Mooney, H., Zavaleta, E.  
University of California Press.2015
- **Fauna in decline: global assessments.** *Science*  
Mooney, H., Tallis, H.

2014; 345 (6199): 885-?

- **IPBES: biodiversity panel should play by rules.** *Nature*  
Oppenorth, L., Hotes, S., Mooney, H.  
2014; 506 (7487): 159
- **Restoring Native Forest Understory: The Influence of Ferns and Light in a Hawaiian Experiment** *SUSTAINABILITY*  
Gould, R. K., Mooney, H., Nelson, L., Shallenberger, R., Daily, G. C.  
2013; 5 (3): 1317-1339
- **Evolution of natural and social science interactions in global change research programs** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Mooney, H. A., Duraiappah, A., Larigauderie, A.  
2013; 110: 3665-3672
- **A Global System for Monitoring Ecosystem Service Change** *BIOSCIENCE*  
Tallis, H., Mooney, H., Andelman, S., Balvanera, P., Cramer, W., Karp, D., Polasky, S., Reyers, B., Ricketts, T., Running, S., Thonicke, K., Tietjen, B., Walz, et al  
2012; 62 (11): 977-986
- **Finding Common Ground for Biodiversity and Ecosystem Services** *BIOSCIENCE*  
Reyers, B., Polasky, S., Tallis, H., Mooney, H. A., Larigauderie, A.  
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- **Building a global observing system for biodiversity** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Scholes, R. J., Walters, M., Turak, E., Saarenmaa, H., Heip, C. H., Tuama, E. O., Faith, D. P., Mooney, H. A., Ferrier, S., Jongman, R. H., Harrison, I. J., Yahara, T., Pereira, et al  
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- **Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012-20** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
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- **Intervention Ecology: Applying Ecological Science in the Twenty-first Century** *BIOSCIENCE*  
Hobbs, R. J., Hallett, L. M., Ehrlich, P. R., Mooney, H. A.  
2011; 61 (6): 442-450
- **Conservation. Ecosystem services for 2020.** *Science*  
Perrings, C., Naeem, S., Ahrestani, F., Bunker, D. E., Burkill, P., Canziani, G., Elmqvist, T., Ferrati, R., Fuhrman, J., JAKSIC, F., Kawabata, Z., Kinzig, A., Mace, et al  
2010; 330 (6002): 323-324
- **The Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services: moving a step closer to an IPCC-like mechanism for biodiversity** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Larigauderie, A., Mooney, H. A.

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- **Biodiversity targets after 2010** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Mace, G. M., Cramer, W., Diaz, S., Faith, D. P., Larigauderie, A., Le Prestre, P., Palmer, M., Perrings, C., Scholes, R. J., Walpole, M., Walther, B. A., Watson, J. E., Mooney, et al  
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- **The ecosystem-service chain and the biological diversity crisis** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*  
Mooney, H. A.  
2010; 365 (1537): 31-39
- **International cooperation in the solution to trade-related invasive species risks** *YEAR IN ECOLOGY AND CONSERVATION BIOLOGY 2010*  
Perrings, C., Burgiel, S., Lonsdale, M., Mooney, H., Williamson, M.  
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- **Developing a common strategy for integrative global environmental change research and outreach: the Earth System Science Partnership (ESSP) Strategy paper** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Leemans, R., Asrar, G., Busalacchi, A., Canadell, J., Ingram, J., Larigauderie, A., Mooney, H., Nobre, C., Patwardhan, A., Rice, M., Schmidt, F., Seitzinger, S., Virji, et al  
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- **Biodiversity, climate change, and ecosystem services** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Mooney, H., Larigauderie, A., Cesario, M., Elmquist, T., Hoegh-Guldberg, O., Lavorel, S., Mace, G. M., Palmer, M., Scholes, R., Yahara, T.  
2009; 1 (1): 46-54
- **Biodiversity Policy Challenges** *SCIENCE*  
Mooney, H., Mace, G.  
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- **Invasive species, ecosystem services and human well-being** *TRENDS IN ECOLOGY & EVOLUTION*  
Pejchar, L., Mooney, H. A.  
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- **Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Carpenter, S. R., Mooney, H. A., Agard, J., Capistrano, D., DeFries, R. S., Diaz, S., Dietz, T., Duraiappah, A. K., Oteng-Yeboah, A., Pereira, H. M., Perrings, C., Reid, W. V., Sarukhan, et al  
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- **Ecosystem services in decision making: time to deliver** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*  
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- **How can high seas biodiversity be assessed in order to inform decision-making? Introduction** *International Seminar Towards a New Governance of High Seas Biodiversity*  
Mooney, H.  
INST OCEANOGRAPHIQUE.2009: 41-42
- **Omora Ethnobotanical Park and the UNESCO Cape Horn Biosphere Reserve** *ECOLOGY AND SOCIETY*  
Hargrove, E. C., Arroyo, M. T., Raven, P. H., Mooney, H.  
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- **Should agricultural policies encourage land sparing or wildlife-friendly farming?** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*  
Fischer, J., Brosi, B., Daily, G. C., Ehrlich, P. R., Goldman, R., Goldstein, J., Lindenmayer, D. B., Manning, A. D., Mooney, H. A., Pejchar, L., Ranganathan, J., Tallis, H.  
2008; 6 (7): 382-387
- **A checklist for ecological management of landscapes for conservation** *ECOLOGY LETTERS*  
Lindenmayer, D., Hobbs, R. J., Montague-Drake, R., Alexandra, J., Bennett, A., Burgman, M., Cale, P., Calhoun, A., Cramer, V., Cullen, P., Driscoll, D., Fahrig, L., Fischer, et al  
2008; 11 (1): 78-91

- **International trade in meat: The tip of the pork chop** *AMBIO*  
Galloway, J. N., Burke, M., Bradford, G. E., Naylor, R., Falcon, W., Chapagain, A. K., Gaskell, J. C., McCullough, E., Mooney, H. A., Oleson, K. L., Steinfeld, H., Wassenaar, T., Smil, et al  
2007; 36 (8): 622-629
- **Long-term data reveal complex dynamics in grassland in relation to climate and disturbance** *ECOLOGICAL MONOGRAPHS*  
Hobbs, R. J., Yates, S., Mooney, H. A.  
2007; 77 (4): 545-568
- **Shifting plant phenology in response to global change** *TRENDS IN ECOLOGY & EVOLUTION*  
Cleland, E. E., Chuine, I., Menzel, A., Mooney, H. A., Schwartz, M. D.  
2007; 22 (7): 357-365
- **Responses of temporal distribution of gastropods to individual and combined effects of elevated CO<sub>2</sub> and N deposition in annual grassland** *ACTA OECOLOGICA-INTERNATIONAL JOURNAL OF ECOLOGY*  
Peters, H. A., Hsu, G., Cleland, E. E., Chiariello, N. R., Mooney, H. A., Field, C. B.  
2007; 31 (3): 343-352
- **Invasive alien species in an era of globalization** *ESA Conference on Ecology in an Era of Globalization - Challenges and Opportunities for Environmental Scientists in the Americas*  
Meyerson, L. A., Mooney, H. A.  
ECOLOGICAL SOC AMER.2007: 199-208
- **The nature and value of ecosystem services: An overview highlighting hydrologic services** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES*  
Brauman, K. A., Daily, G. C., Duarte, T. K., Mooney, H. A.  
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- **Habitat loss, trophic collapse, and the decline of ecosystem services** *ECOLOGY*  
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- **Reduced nitrate leaching and enhanced denitrifier activity and efficiency in organically fertilized soils** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Gastropod herbivory in response to elevated CO<sub>2</sub> and N addition impacts plant community composition** *ECOLOGY*  
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- **Herbivore control of annual grassland composition in current and future environments** *ECOLOGY LETTERS*  
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- **Agriculture. Losing the links between livestock and land.** *Science*  
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- **Ecosystem services of tropical dry forests: Insights from long-term ecological and social research on the Pacific Coast of Mexico** *ECOLOGY AND SOCIETY*  
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- **Native harvester ants threatened with widespread displacement exert localized effects on serpentine grassland plant community composition** *OIKOS*  
Peters, H. A., Chiariello, N. R., Mooney, H. A., Levin, S. A., Hartley, A. E.  
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- **Confronting the human dilemma** *NATURE*  
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- **Grassland responses to three years of elevated temperature, CO<sub>2</sub>, precipitation, and N deposition** *ECOLOGICAL MONOGRAPHS*  
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- **Additive effects of simulated climate changes, elevated CO<sub>2</sub>, and nitrogen deposition on grassland diversity** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Zavaleta, E. S., Shaw, M. R., Chiariello, N. R., Mooney, H. A., Field, C. B.  
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- **Grassland responses to global environmental changes suppressed by elevated CO<sub>2</sub>** *SCIENCE*  
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- **Viewing invasive species removal in a whole-ecosystem context** *TRENDS IN ECOLOGY & EVOLUTION*  
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- **The evolutionary impact of invasive species** *National-Academy-of-Sciences Colloquium on the Future of Evolution*  
Mooney, H. A., Cleland, E. E.  
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- **Contrasting effects of elevated CO<sub>2</sub> on old and new soil carbon pools** *SOIL BIOLOGY & BIOCHEMISTRY*  
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- **An International Biodiversity Observation Year** *TRENDS IN ECOLOGY & EVOLUTION*  
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