

CITIZEN SCIENCE

PUBLIC PARTICIPATION IN
ENVIRONMENTAL RESEARCH



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Citizen Science Public Participation In Environmental Research

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Citizen Science Public Participation In Environmental Research:

Citizen Science Janis L. Dickinson, Richard E. Bonney, Jr., 2012-04-07 Citizen science enlists members of the public to make and record useful observations such as counting birds in their backyards watching for the first budding leaf in spring or measuring local snowfall The large numbers of volunteers who participate in projects such as Project FeederWatch or Project BudBurst collect valuable research data which when pooled together create an enormous body of scientific data on a vast geographic scale In return such projects aim to increase participants connections to science place and nature while supporting science literacy and environmental stewardship In Citizen Science experts from a variety of disciplines including scientists and education specialists working at the Cornell Lab of Ornithology where many large citizen science programs use birds as proxies for biodiversity share their experiences of creating and implementing successful citizen science projects primarily those that use massive data sets gathered by citizen scientists to better understand the impact of environmental change This first and foundational book for this developing field of inquiry addresses basic aspects of how to conduct citizen science projects including goal setting program design and evaluation as well as the nuances of creating a robust digital infrastructure and recruiting a large participant base through communications and marketing An overview of the types of research approaches and techniques demonstrates how to make use of large data sets arising from citizen science projects A final section focuses on citizen science s impacts and its broad connections to understanding the human dimensions and educational aspects of participation Citizen Science teaches teams of program developers and researchers how to cross the bridge from success at public engagement to using citizen science data to understand patterns and trends or to test hypotheses about how ecological processes respond to change at large geographic scales Intended as a resource for a broad audience of experts and practitioners in natural sciences information science and social sciences this book can be used to better understand how to improve existing programs develop new ones and make better use of the data resources that have accumulated from citizen science efforts Its focus on harnessing the impact of crowdsourcing for scientific and educational endeavors is applicable to a wide range of fields especially those that touch on the importance of massive collaboration aimed at understanding and conserving what we can of the natural world Environmental Participation Catharina

Landström, 2019-12-13 This book introduces environmental participation as a distinct field comprising diverse practices It presents examples of public participation specifically in environmental science decision making and expertise The first chapter introduces the science studies perspective and the key concepts that underpin the argument for approaching such a range of practices as a coherent field The following three chapters explore a wide range of practical examples of how the public can participate in all three domains Drawing on her experience with a variety of transdisciplinary projects Landström discusses topics including the coproduction of knowledge about flooding community involvement with radioactive waste disposal and collaborative water quality modelling She then goes on to cover citizen science and social movement expertise

as environmental participation practices The concluding chapter reflects on the challenges as well as future opportunities of environmental participation This book is aimed at readers from a variety of academic and non academic backgrounds and will be a great interest to social and natural scientists students and practitioners *Handbook of Citizen Science in Ecology and Conservation* Christopher Andrew Lepczyk,Owen D. Boyle,Timothy L. V. Vargo,2020 Handbook of Citizen Science in Ecology and Conservation is the first practical and comprehensive manual that provides step by step instructions for creating natural science research projects that involve collaboration between scientists and the general public As citizen science projects become increasingly common there is a growing need for concrete best practices around planning and implementing successful projects that can allow project leaders to guide and gauge success of projects while ensuring the collection of high quality data Based on a variety of case studies from several citizen science projects this is the definitive reference guide for all potential citizen science practitioners ranging from professors and graduate students to staff at agencies and nongovernmental organizations

Citizen Science Contributions to Biology and Environmental Education Dina Tsybulsky,Tali Tal,2025-10-15 This edited volume explores the exciting and increasingly important role of citizen science in biology and environmental education This comprehensive collection provides valuable insights on how to design implement and explore citizen science educational initiatives Featuring contributions from leading experts the book provides a range of research perspectives and pedagogical tools to facilitate the incorporation of citizen science into the classroom It showcases contemporary examples worldwide highlighting the research aspect of citizen science educational projects This book is a valuable resource for researchers educators and individuals interested in citizen science and its contribution to biology and environmental education It provides readership with state of the art information on the latest advances in research and practice in the field and encourages an active participation in citizen science endeavors **Science by the People** Aya H. Kimura,Abby Kinchy,2019-09-13 Longlisted for the Fleck Prize from the Society for Social Studies of Science 4S Citizen science research involving nonprofessionals in the research process has attracted both strong enthusiasts and detractors Many environmental professionals activists and scholars consider citizen science part of their toolkit for addressing environmental challenges Critics however contend that it represents a corporate takeover of scientific priorities In this timely book two sociologists move beyond this binary debate by analyzing the tensions and dilemmas that citizen science projects commonly face Key lessons are drawn from case studies where citizen scientists have investigated the impact of shale oil and gas nuclear power and genetically engineered crops These studies show that diverse citizen science projects face shared dilemmas relating to austerity pressures presumed boundaries between science and activism and difficulties moving between scales of environmental problems By unpacking the politics of citizen science this book aims to help people negotiate a complex political landscape and choose paths moving toward social change and environmental sustainability *Citizen Science* Susanne Hecker,Muki Haklay,Anne Bowser,Zen Makuch,Johannes Vogel,Aletta Bonn,2018-10-15 Citizen science the

active participation of the public in scientific research projects is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society and as a vibrant and productive science policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

Handbook of Citizen Science in Ecology and Conservation Christopher A. Lepczyk, 2020-04-28. *Handbook of Citizen Science in Ecology and Conservation* is the first practical and comprehensive manual for creating, implementing or improving natural science research and monitoring projects that involve collaboration between scientists and the general public. As citizen science projects become increasingly common, project leaders are seeking information on concrete best practices for planning and implementing projects, practices that allow them to guide and gauge success while also ensuring the collection of high quality data and rewarding experiences for volunteers. In this handbook, citizen science practitioners from around the world and with decades of experience provide step-by-step instructions, insights and advice, and they explore real-world applications through case studies from a variety of citizen science projects. This is the definitive reference guide for anyone interested in starting or improving a citizen science project with ecological or conservation applications, from professors and graduate students to agency staff and nongovernmental organizations.

Analyzing the Role of Citizen Science in Modern Research Ceccaroni, Luigi, Piera, Jaume, 2016-10-25. As the need for sustainable development practices around the world continues to grow, it has become imperative for citizens to become actively engaged in the global transition. By evaluating data collected from various global programs, researchers are able to identify strategies and challenges in implementing civic engagement initiatives. *Analyzing the Role of Citizen Science in Modern Research* focuses on analyzing data on current initiatives and best practices in citizen engagement and education programs across various disciplines. Highlighting emergent research and application techniques within citizen science initiatives, this publication appeals to academicians, researchers, policy makers, government officials, technology developers, advanced level students and program developers interested in launching or improving citizen science programs across the globe.

Closing the Knowledge-Implementation Gap in Conservation Science Catarina C. Ferreira, Cornelya F. C. Klütsch, 2022-01-03. This book aims to synthesize the state of the art on biodiversity knowledge exchange practices to understand where and how improvements can be made to close the knowledge

implementation gap in conservation science and advance this interdisciplinary topic Bringing together the most prominent scholars and practitioners in the field the book looks into the various sources used to produce biodiversity knowledge from natural and social sciences to Traditional Ecological Knowledge and Citizen Science as well as knowledge mobilization approaches to highlight the key ingredients that render successful conservation action at a global scale By doing so the book identified major current challenges and opportunities in the field for different sectors that generate mobilize and use biodiversity knowledge like academia boundary organizations practitioners and policy makers to further develop cross sectorial knowledge mobilization strategies and enhance evidence informed decision making processes globally

Participatory Sensing, Opinions and Collective Awareness Vittorio Loreto, Muki Haklay, Andreas Hotho, Vito D.P.

Servedio, Gerd Stumme, Jan Theunis, Francesca Tria, 2016-05-13 This book introduces and reviews recent advances in the field in a comprehensive and non technical way by focusing on the potential of emerging citizen science and social computation frameworks coupled with the latest theoretical and modeling tools developed by physicists mathematicians computer and social scientists to analyse interpret and visualize complex data sets There is overwhelming evidence that the current organisation of our economies and societies is seriously damaging biological ecosystems and human living conditions in the short term with potentially catastrophic effects in the long term The need to re organise the daily activities with the greatest impact energy consumption transport housing towards a more efficient and sustainable development model has recently been raised in the public debate on several global environmental issues Above all this requires the mismatch between global societal and individual needs to be addressed Recent advances in Information and Communication Technologies ICT can trigger important transitions at the individual and collective level to achieve this aim Based on the findings of the collaborative research network EveryAware the following developments among the emerging ICT technologies are discussed in depth in this volume Participatory sensing where ICT development is pushed to the level where it can support informed action at the hyperlocal scale providing capabilities for environmental monitoring data aggregation and mining as well as information presentation and sharing Web gaming social computing and internet mediated collaboration where the Web will continue to acquire the status of an infrastructure for social computing allowing users cognitive abilities to be coordinated in online communities and steering the collective action towards predefined goals Collective awareness and decision making where the access to both personal and community data collected by users processed with suitable analysis tools and re presented in an appropriate format by usable communication interfaces leads to a bottom up development of collective social strategies

Immerse yourself in heartwarming tales of love and emotion with is touching creation, **Citizen Science Public Participation In Environmental Research** . This emotionally charged ebook, available for download in a PDF format (Download in PDF: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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