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Jason Boczar, Chelsea Johnston, and Alex Onac

IN-SERVICE DAY 2016
05.13.2016

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Scholar Commons, a service of the University of South Florida Tampa Library, is a virtual showcase for USF's research and creative energies. Members of the USF academic community are encouraged to [contribute](#) any completed scholarship for long-term preservation and worldwide electronic accessibility. Search engine optimization within Scholar Commons means your publications are easily found via a web search. As an author, you can track interest in your work through the author dashboard or monthly readership reports sent via email.

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At a Glance

Top 10 Downloads
All time

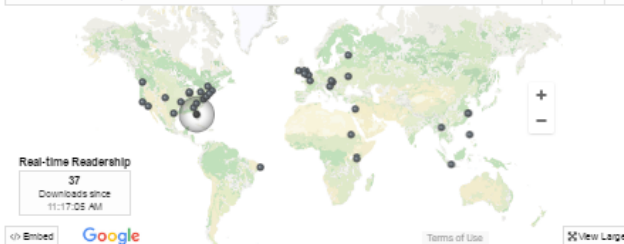
Recent Additions
20 most recent additions
Activity by year

Featured Research



Reader from: Ormond Beach, Florida, United States

An Overview of Yield-to-Bus Programs in Florida
 Huaguo Zhou, Stephanie Bromfield, Pei-Sung Lin
 Journal of Public Transportation



Real-time Readership
37
Downloads since
11:17:05 AM

Embed		Terms of Use	View Larger
20,824 Total Papers	6,772,759 Total Downloads	1,308,159 Downloads in the past year	

- What Is Scholar Commons?
- History of Scholar Commons
- Key Collections
 - *OA Textbooks*
 - *Electronic Theses and Dissertations*
 - *Conferences*
 - *Patents*
 - *Open Access Journals*
- Introduction to Journal Publishing
 - *Publication process*
 - *Journal examples*
 - *Layout process*
- Benefits of Publishing on Scholar Commons

What Is Scholar Commons?

SCHOLAR COMMONS | **USF** UNIVERSITY OF SOUTH FLORIDA

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Scholar Commons, a service of the University of South Florida Tampa Library, is a virtual showcase for USF's research and creative energies. Members of the USF academic community are encouraged to contribute any completed scholarship for long-term preservation and worldwide electronic accessibility. Search engine optimization within Scholar Commons means your publications are easily found via a web search. As an author, you can track interest in your work through the author dashboard or monthly readership reports sent via email.

BROWSE RESEARCH AND SCHOLARSHIP

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What Is Scholar Commons?

- Scholar Commons is also a service
 - *Conference hosting*
 - *Copyright clearance*
 - *Researcher profiles*
 - *Preservation*

International Clumped Isotope Workshop

Home About FAQ My Account

Scholar Commons > College of Marine Science > CLUMPED ISOTOPE

INTERNATIONAL CLUMPED ISOTOPE WORKSHOP

[Follow](#)

Abstract submissions are now closed. This website provides updated information about the program of the workshop, as well as links about the workshop.

The meeting will be held in St Petersburg between **January 6-9, 2016**

The closest major airport is Tampa (**TPA**).

From the airport you could take a taxi (expensive), rent a car, or take Super Shuttle. The trip takes about 20-30 minutes depending upon traffic.

Driving from Miami will take about 4 hours.

This meeting is being organized by the **University of South Florida** and the **University of Miami**. It is supported exclusively by Thermo Scientific, with additional funding for Early Career Scientists provided by the U.S. National Science Foundation.

Peter Swart and Brad Rosenheim

Browse the contents of International Clumped Isotope Workshop:
[5th International Clumped Isotope Workshop - St. Petersburg, Florida, U.S.A.](#)

Workshop Links

- Clumped Isotope Workshop Home Page
- St. Petersburg Accommodations
- Registration
- Abstract Template

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Submit Abstract

Links

College of Marine Science Home

History of Scholar Commons


- Officially launched in fall of 2011
- Open access journals were hosted on services.bepress.com
 - *First journal, Numeracy: December 2007*
 - *By Scholar Commons launch there were 3 open access journals*



Key Collections

- Open Access Textbooks
- Electronic Theses and Dissertations
- Conferences
- Patents
- Open Access Journals

Open Access Textbooks



Social Science Research: Principles, Methods, and Practices

Anol Bhattacharjee, *University of South Florida* [Follow](#)

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304,480 Downloads
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[American Studies Commons](#), [Education Commons](#), [Public Health Commons](#), [Social and Behavioral Sciences Commons](#)

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Description
This book is designed to introduce doctoral and graduate students to the process of scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any course on research methods.

The contents and examples are designed for anyone interested in behavioral research (not just information systems people), and so, the book should appeal to most business programs, social sciences, education, public health, and related disciplines.

Publication Date
2012

Publisher
Global Text Project

Disciplines
American Studies | Arts and Humanities | Education | Public Health | Social and Behavioral Sciences



The Inside, Outside, and Upside Downs of Children's Literature: From Poets and Pop-ups to Princesses and Porridge

Jenifer Jasinski Schneider, *University of South Florida* [Follow](#)


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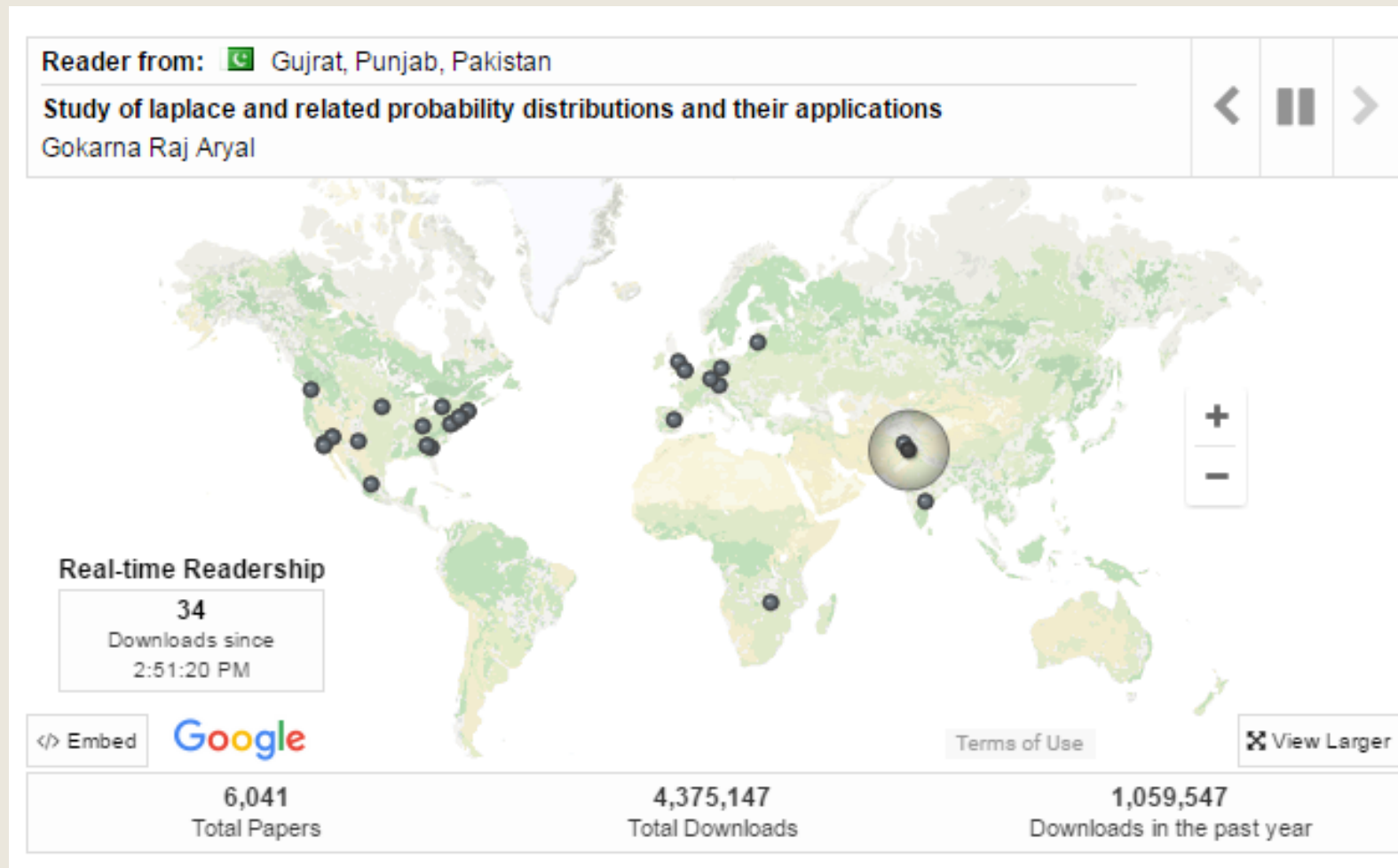
Description
Children's literature is written for children and youth, but the analysis of children's literature requires careful attention to text as well insightful interpretation of the ways in which authors and illustrators present the human condition, the physical world, imaginative experiences, and global forces. Children's literature is also a \$4-billion-a-year industry that impacts social practices, politics, financial markets, schools, literacy rates, history, and art. Whatever the reason for your interest, children's literature is a big deal.

Publication Date
2016


Disciplines
Education

Rights

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Electronic Theses and Dissertations



Conferences



Origins, Resources, and Management of
Hypogene Karst
11-14, April 2016
Carlsbad, New Mexico USA

Scholar Commons About this IR Help My Account

Scholar Commons > USF Libraries > Environmental Sustainability > DEEPKARST_2016

DEEPKARST CONFERENCE 2016

Follow

Papers must be submitted electronically using the [Online Submission Form](#).

See below for deadlines and topic possibilities for DeepKarst 2016.

What is DeepKarst 2016 all about?

Hypogenic karst is formed by deep, rising waters, creating distinct types of caves and related features. Much remains to be learned about this new and exciting field, which has direct application to geologists, engineers, hydrologists, land managers and planners, and oil and gas professionals.

Topics for the conference include

- Variations in hypogene development.
- Refined identification and interpretation of hypogenic features.
- Hypogene water resources.
- Hypogene mineral resources.
- Hypogene oil and gas reservoirs: prediction and production.
- Geohazards associated with hypogenic processes.
- Environmental vulnerability mapping in hypogene karst.
- Hypogene fauna: Do diagnostic species exist?

IMPORTANT DATES


Please note that the following deadlines will be enforced:

- 15 September 2015: Draft papers due
- 15 November 2015: Authors provided with review and comments

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Conference Links
[Manuscript Template \(MS Word\)](#)
[Instructions to Authors \(PDF\)](#)
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Patents

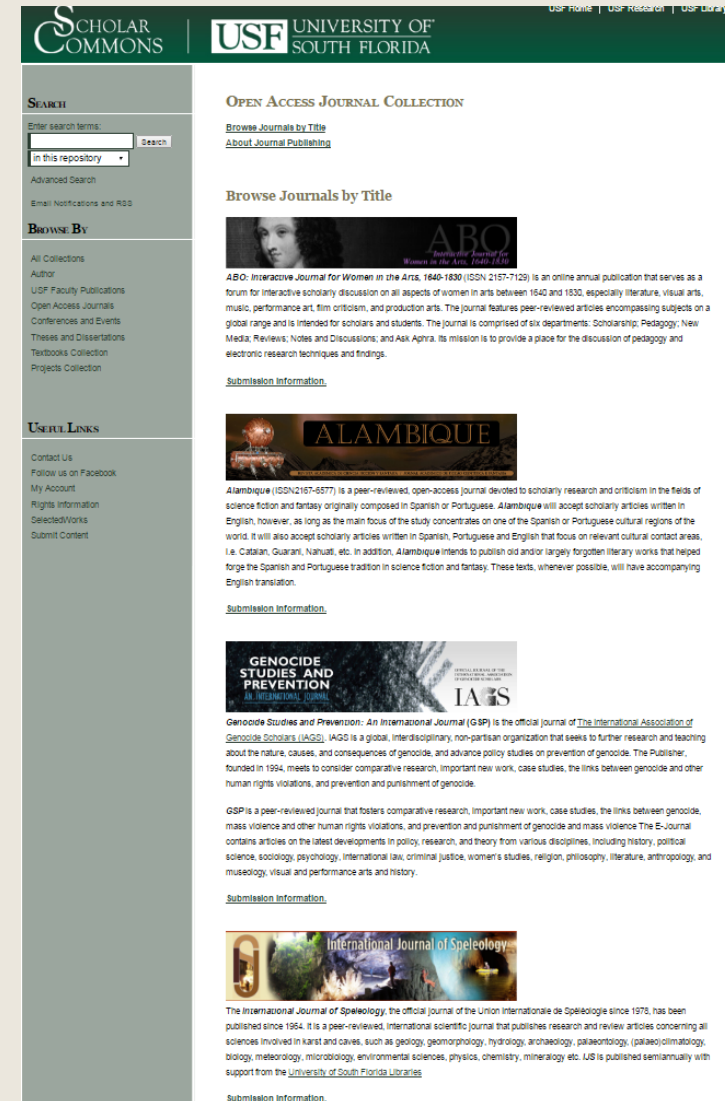
47 Countries ▲

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Country	Downloads
▶ United States	171
▶ Korea, Republic Of	30
▶ India	26
▶ Japan	18
▶ Ireland	17
▶ United Kingdom	16
▶ Germany	15
▶ France	12
▶ Iran, Islamic Republic Of	10
▶ Turkey	7
▶ Egypt	5
▶ Canada	5
▶ Taiwan	5
▶ Brazil	4
▶ China	3

Introduction to Journal Publishing

- 17 journals on Scholar Commons, all fully open access
- Two journals are indexed in Scopus (*IJS* and *JSS*)
- One journal has an impact factor (*IJS*)
- Variety of subjects, from geology to homeland security to the humanities
- All journals have some connection to USF via a faculty member on the editorial board
- No author publication fees
- Download and usage statistics available through bepress and Google Analytics (for top journals)



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Browse Journals by Title

ABO
Interactive Journal for Women in the Arts, 1640-1930

ABO: Interactive Journal for Women in the Arts, 1640-1930 (ISSN 2157-7129) is an online annual publication that serves as a forum for interactive scholarly discussion on all aspects of women in arts between 1640 and 1930, especially literature, visual arts, music, performance art, film criticism, and production arts. The Journal features peer-reviewed articles encompassing subjects on a global range and is intended for scholars and students. The journal is comprised of six departments: Scholarship; Pedagogy; New Media; Reviews; Notes and Discussions; and Ask Aghra. Its mission is to provide a place for the discussion of pedagogy and electronic research techniques and findings.

[Submission Information](#)

ALAMBIQUE

Alambique (ISSN 2167-6577) is a peer-reviewed, open-access journal devoted to scholarly research and criticism in the fields of science fiction and fantasy originally composed in Spanish or Portuguese. Alambique will accept scholarly articles written in English, however, as long as the main focus of the study concentrates on one of the Spanish or Portuguese cultural regions of the world. It will also accept scholarly articles written in Spanish, Portuguese and English that focus on relevant cultural contact areas, i.e. Catalan, Quebec, Hawaii, etc. In addition, Alambique intends to publish old and/or largely forgotten literary works that helped forge the Spanish and Portuguese tradition in science fiction and fantasy. These texts, whenever possible, will have accompanying English translation.

[Submission Information](#)

GENOCIDE STUDIES AND PREVENTION
An Interdisciplinary Journal

Genocide Studies and Prevention: An International Journal (GSP) is the official journal of The International Association of Genocide Scholars (IAGS). IAGS is a global, interdisciplinary, non-partisan organization that seeks to further research and teaching about the nature, causes, and consequences of genocide, and advance policy studies on prevention of genocide. The Publisher, founded in 1994, meets to consider comparative research, important new work, case studies, the links between genocide and other human rights violations, and prevention and punishment of genocide.

GSP is a peer-reviewed journal that fosters comparative research, important new work, case studies, the links between genocide, mass violence and other human rights violations, and prevention and punishment of genocide and mass violence. The E-Journal contains articles on the latest developments in policy, research, and theory from various disciplines, including history, political science, sociology, psychology, international law, criminal justice, women's studies, religion, philology, literature, anthropology, and museology, visual and performance arts and history.

[Submission Information](#)

International Journal of Speleology

The International Journal of Speleology, the official journal of the Union Internationale de Speleologie since 1975, has been published since 1954. It is a peer-reviewed, international scientific journal that publishes research and review articles concerning all sciences involved in karst and caves, such as geology, geomorphology, hydrology, archaeology, palaeontology, (paleo)climatology, biology, meteorology, microbiology, environmental sciences, physics, chemistry, mineralogy etc. IJS is published semiannually with support from the University of South Florida Libraries.

[Submission Information](#)

Publication Process

Submission

- Editors have many different ways of handling incoming submissions, but generally fall into two categories
 - *Editors handle via email*
 - *Submissions come in through bepress system*
- Approval handled by editors – again, varies
 - *Some journals have very strict policies on who can submit and/or what should be submitted. We generally advise they collect these on a “Policies” page*

Interim Tasks

- Copy-editing handled by editors/authors
- Layout done for some journals, but not all

Publication

- Two ways to publish: incremental (one by one) vs. closing issues
- Some journals publish themselves, others need some assistance, others need full support
- After publication, we complete XML for DOI registration and download all PDF files in a zip file for Portico back-up
 - *Other journals require additional steps, like revising a cover image (GSP)*

Active Association: *ABO: Interactive Journal for Women in the Arts, 1640-1830*

- Focuses on gender and women's issues, and all aspects of women in the arts in the long eighteenth century, especially literature, visual arts, music, performance art, film criticism, and production arts
- Active editorial board
 - *Handles submissions, revisions, finalizing articles, publication*
- Publishes by closing issues
- Publishes two issues a year – one in spring and one in fall
- Homepage features readership map, Aphra Behn Society's Twitter feed, DOAJ badge
- Sidebar includes link to ABOPublic, Aphra Behn Society's blog

The screenshot shows the homepage of the ABO Interactive Journal. At the top, there is a header with a portrait of a woman and the journal's title. Below the header, there is a navigation bar with 'MY ACCOUNT' and a 'Follow' button. The main content area is divided into several sections: 'About ABO' (with a 'Follow' button), 'Editors' (listing General Editor Laura Rumpo and Managing Editors Jennifer Golightly and Aleksandra Nulquist), 'Submissions' (with a 'Follow' button), 'Most Popular Papers', 'Recent Custom Email Follows or RSS', 'Select an issue' (with a dropdown menu set to 'All Issues'), 'Enter search terms' (with a search box and a dropdown set to 'In this journal'), 'Advanced Search', 'ISSN: 2157-7129', 'Tweets by @ASOJournalists' (with a tweet from @ASOJournalists), 'Follow us on Facebook', 'Follow us on Twitter', 'Follow us on LinkedIn', 'Follow us on YouTube', 'Hosted by' (with logos for Scholar Commons, University of South Florida, and DOAJ), 'Recent Downloads' (showing 0 of 152 in the past week), and a 'World Map' showing readership activity. At the bottom, there is a 'Terms of Use' link and a 'View Larger' button.

Newest Journal: *Journal of Practitioner Research*

The screenshot shows the homepage of the Journal of Practitioner Research (JPR). The header features the journal's title, a description of its focus on practitioner research, and the University of South Florida (USF) logo. Below the header, there is a navigation menu with links for 'Journal Home', 'About This Journal', 'Editorial Board', and 'Policies'. A 'Submit Article' button is prominently displayed. The main content area includes a 'Current Issue: Volume 1, Issue 1 (2016)' section, a 'Practitioner Research' section with a PDF link to 'Action Research by Practitioners: A Case Study of a High School's Attempt to Create Transformational Change' by Jeffrey Glanz, and a 'Conceptual Papers' section with PDF links to 'The Relevance and Importance of Practitioner Research in Contemporary Times' by Nancy Fichtman Dana and 'Expanding Our Horizons: Alternative Approaches to Practitioner Research' by Stephen P. Gordon. The footer contains the Digital Commons logo and navigation links for 'Home', 'About', 'FAQ', 'My Account', and 'Accessibility Statement'.

- Features the work of practitioner researchers across teacher and leadership education disciplines (e.g., mathematics, social studies, literacy, science, special education, principalship, etc.) and levels (Pk-12 & higher education)
- Active editorial board
 - *Handles incoming submissions, revisions, finalizing articles*
- Publishes incrementally
- Publication schedule still being determined by editors, but will likely be twice a year
- Just published their first article last month – more to come!

Changing with the Times: *Undergraduate Journal of Mathematical Modeling: One + Two*

- Publishes works from undergraduate engineering and science students, focusing on applied interdisciplinary projects involving mathematics applications
- Moderately active editorial board
 - *Handles incoming submissions and works with students to revise submissions*
 - *Submissions handled off bepress – we will hopefully be switching to the system this year*
- Publishes incrementally
- Working with editors to set a publication schedule

Undergraduate Journal of
Mathematical Modeling:
One + Two

UJMM
ONE + TWO

Scholar Commons > College of Arts and Sciences > Mathematics and Statistics > UJMM: One + Two

Journal Home
About This Journal
Editorial Board
Policies

Most Popular Papers

Receive Custom Email Notices or RSS

Select an issue:
All Issues Browse

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in this journal Search

Advanced Search

ISSN: 2326-3852

Center for Industrial and
Interdisciplinary Mathematics

MUG

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Undergraduate Journal of Mathematical Modeling: One + Two is concerned with various applications of mathematics done by non-mathematics majors. In particular, its purpose is to disseminate selected applied mathematics projects of engineering and science students.

A Unique feature of this journal, as shown by its title, is that each student whose work is published has been advised by at least two different people: a subject area advisor (who typically, but not always, suggested the problem) and a mathematics advisor.

UJMM is an open access journal, free to authors and readers, and relies on your support. [Donate Now](#)

NEW ISSUE IN PROGRESS: [Volume 6, Issue 2](#)

Current Issue: Volume 6, Issue 1 (2014) Fall

Articles

- Calculating the Solar Energy of a Flat Plate Collector
Ariane Rosario
- Rocket Flight Path
Jamie Waters
- Florida Sinkholes and Grout Injection Stabilization
Charles Hunt Griffin II
- Survival Analysis - Breast Cancer
Minh Hoang Pham
- Modeling Rocket Flight in the Low-Friction Approximation
Logan White
- Fukushima: A Model Study
Heintze Kathryn Mcker

Reader from: Grand Haven, Michigan, United States

Finding the Area of a Major League Baseball Field
Jacob Cournoine

Recent Downloads
1 of 334
in the past day

0 Total Papers 0 Total Downloads 0 Downloads in the past year

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Heavily Indexed: *Journal of Strategic Security*

The screenshot shows the homepage of the Journal of Strategic Security (JSS). At the top, it features the Henley-Putnam University logo and the text 'Published Quarterly by Henley-Putnam University Press'. The main title 'JSS Journal of Strategic Security' is prominently displayed. A navigation bar includes links for 'My Account', 'FAQ', 'About This IR', and 'Scholar Commons'. A left sidebar contains a menu with options like 'Journal Home', 'Aims & Scope', 'Editorial Board', 'Policies', 'Submission Guidelines', 'Call For Papers', 'Publication Ethics', 'Abstracting & Indexing', and 'Partners'. Below this is a 'Submit Article' button and a section for 'Most Popular Papers'. A 'SPECIAL ISSUES:' section lists recent issues, including 'Volume 9, No. 1, Special Issue Spring 2016: Designing Danger: Complex Engineering by Violent Non-State Actors'. A search bar is located below the special issues section. At the bottom, it provides ISSN information (ISSN PRINT: 1944-0464, ISSN ELECTRONIC: 1944-0472) and a 'Hosted By:' section for Scholar Commons at the University of South Florida.

- Provides a multi-disciplinary forum for scholarship and discussion of strategic security issues drawing from the fields of intelligence, terrorism and counterterrorism studies and protection, among others
- Active editorial board
 - *Handles incoming submissions and article revisions*
- Publishes by closing issues
- Generally publishes about four issues a year (special issues included)
- Indexed in Scopus and DOAJ

OA Role Model: *Numeracy*

- Publishes evidence-based articles on teaching strategies and resources, education research, curriculum design, assessment strategies, and faculty development, as well as perspectives, reviews of educational resources, and commentaries/replies that support the creation of a more quantitatively literate world
- Active editorial board
 - *Handle all incoming submissions and article revisions*
- Publishes by closing issues
- Publishes two issues a year, one in January and one in July
- Was awarded the DOAJ Seal in 2015 for its high degree of openness and for adhering to best practices and high publishing standards

NUMERACY
Advancing Education in Quantitative Literacy

Scholar Commons > USF Libraries > NUMERACY

Journal Home
About this Journal
Editorial Board
Instructions to Authors

Submit Article

Most Popular Papers

Receive Custom Email Notices or RSS

Select an Issue:
All Issues Browse

Enter search terms:
In this journal Search

Advanced Search

ISSN: 1536-4660

Hosted By:

Numeracy (ISSN 1536-4660) is the open-access, peer-reviewed, electronic journal of the [National Numeracy Network \(NNN\)](#). Numeracy supports education at all levels that integrates quantitative skills across disciplines. This journal is supported by the [University of South Florida Libraries](#).

The graphic above is "Vase of Numbers" by Beth Fratell, ©2007. Inspired by "a world awash in numbers," [Mathematics and Democracy: The Case for Quantitative Literacy](#) (NCEd, 2001).

In 2015, Numeracy was awarded the [DOAJ Seal](#) for its high degree of openness and for adhering to best practices and high publishing standards.

Editor
H. L. (Len) Vacher, University of South Florida

Editor
Dorothy L. Wallace, Dartmouth College

Editor
Nathan D. Grawe, Carleton College

Book Review Editor
Michael T. Catalano, Dakota Wesleyan University

Current Issue: Volume 9, Issue 1 (2016)

Editorial

PDF Remembering Lynn Steen: A Steen-Numeracy Citation Index (2008-2015)
H. L. Vacher

Articles

PDF What's in a Name? A Critical Review of Definitions of Quantitative Literacy, Numeracy, and Quantitative Reasoning
Gizem Karakil, Edwin H. Virafane Hernandez, and Jeremy A. Taylor

PDF Investigating Proportional Reasoning in a University Quantitative Literacy Course
Vera Frith and Pam Lloyd

PDF Random Number Simulations Reveal How Random Noise Affects the Measurements and Graphical Portrayals of Self-Assessed Competency
Edward Nulfer, Christopher Cogan, Steven Fleisher, Eric Gaze, and Karl Wirth

PDF Clinician Numeracy: The Development of an Assessment Measure for Doctors
Anne A. Taylor and Lucie M. Byrne-Davis

PDF Using Think-Aloud Protocols to Uncover Misconceptions and Improve Developmental Math Instruction: An Exploratory Study
Charles Secorsky, Thomas F. Judd, Eric Magaram, Stephen H. Levy, Bruce Kossar, and George Reese

Book Reviews

PDF Applied Mathematics in the Humanities: Review of Nonparametric Statistics for the Behavioral Sciences by Sidney Siegel and N. John Castellan, Jr. (2nd ed., 1988)
Paul H. Graive

PDF Infographics as Eye Candy: Review of World War II in Numbers: An Infographic Guide to the Conflict, its Conduct, and its Casualties by Peter Doyle (2013)
Joel Best

PDF Open Access!: Review of Online Statistics: An Interactive Multimedia Course of Study by David Lane
Samuel L. Tunstall

Column

PDF Parts of the Whole: Teaching Quantitative Reasoning in the Predator-Prey Model
Dorothy Wallace

Journals That Require Layout Support

- *Genocide Studies and Prevention: An International Journal*



- *Journal of Ecological Anthropology*



- *International Journal of Speleology*
 - has impact factor (latest: 1.656)

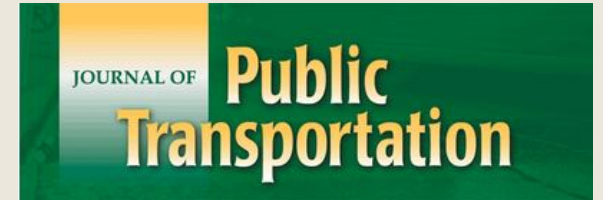


- *Studia UBB Geologia*



Journals With Their Own Layout Team

- *Journal of Public Transportation*
 - Recently moved to Scholar Commons
 - Benefits:
 - Improved discoverability
 - Library support
 - Peer-review system
 - Backup content
- *Statistics in Volcanology*
 - Editors do the layout using LaTeX



Layout Process

- Authors upload the manuscript in the bepress system

International Journal of Speleology

Manage Submissions Upload Submission Usage Reports Configuration Mailing Lists My Account

My Submissions

Batch upload XML

Batch upload Excel

Batch revise Excel

Reviewer List

Reviewer Report

Import

SelectedWorks

Close issue

Preview site

Update site

Go to site

Preferences

Log out

Editor report

Show these submissions:

State: Not yet published

Last event: Any event

Assigned to: All editors

Last Name is

Search

ID	Author	Title	Last Event	Date of Last Event	Waiting for Editor	Type	Issue	Editor	Initial Decision	Reminder	Locked by Editor
1996	Giuseppe Santi	The first directly dated cave ...	Editor assigned	Tue May 10 2016	•	Article	Assign	Onac	due Tue Jul 19 2016		
1995	Philippe Gombert	Toxicity of fluorescent tracer...	Reviewer commits to review	Tue May 10 2016	•	Article	Assign	Onac	due Mon Jul 11 2016		
1994	Kim GENUITE	Flowstone increase in Gournier...	Reviewer declined to review	Thu May 5 2016	•	Article	Assign	De Waele	due Mon Jul 4 2016		
1989	Stefan Leuko	The archaeological diversity of the ...	Reviewer commits to review	Mon Apr 25 2016	•	Article	Assign	Barton	due Thu Jun 16 2016		
1988	Mohammed Oludare Idrees Mr.	Hybrid Taguchi-Objective Funct...	Review completed	Mon May 9 2016	•	Article	Assign	De Waele	due Wed May 25 2016		
1987	ZHENGQUAN CHEN	Tube coalescence in the Jingfu...	Major revisions required	Tue May 10 2016		Article	Assign	Onac	made in 63 days		
1983	Rolf Vieten	Seasonal temperature variation...	Major revisions required	Wed Apr 13 2016		Article	Assign	Onac	made in 58 days		
1981	Jelena Vranković	Bioaccumulation of heavy metal...	Reviewer commits to review	Wed Apr 6 2016	•	Article	Assign	Pipan	due Sat Apr 16 2016 (late)		
1979	Andrej Gosar	Search for an artificially bur...	Accepted	Mon Apr 25 2016		Article	Assign	De Waele	made in 43 days		

International Journal of Speleology

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My Submissions

Batch upload XML

Batch upload Excel

Batch revise Excel

Import

SelectedWorks

Submission details

Preview Submission

Assign Editor

Reviewers

Revise Submission

View revisions

Supplemental Content

Register decision

Request minor revisions

Publish

Withdraw Submission

Add reminder

History

Editor Notes

Decision Letters

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Editor report

Title: Search for an artificially buried karst cave entrance using ground penetrating radar: a successful case of locating the S-19 cave in the Mt. Kanin massif (NW Slovenia)

Authors: Andrej Gosar (University of Ljubljana, Faculty of Natural Sciences and Engineering), Teja Čeru (University of Ljubljana, Faculty of Natural Sciences and Engineering)

Last Event: Accepted (Mon Apr 25 2016)

Waiting for Editor: No

Locked by Editor: No

Editor: Jo De Waele

Manuscript: #1979

Decision Made In: 43 days

PDF

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Filename	Description	Upload new version	Sort	Show
Fig1.jpg	Figure 1	Browse... No file selected.	1	☐
Fig2.jpg	Figure 2	Browse... No file selected.	2	☐
Fig3.jpg	Figure 3	Browse... No file selected.	3	☐
Fig4.jpg	Figure 4	Browse... No file selected.	4	☐
Fig5.jpg	Figure 5	Browse... No file selected.	5	☐
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Profile number	Orientation	Length	No. of GPR traces
1	S - N	37.4 m	187
2	S - N	44.2 m	221
3	S - N	47.9 m	240
4	S - N	50.2 m	251
5	W - E	45.6 m	228
6	W - E	50.8 m	254
7	W - E	59.4 m	297

et al., 2009a; Russ et al., 2010; Becking et al., 2011; González et al., 2011). Anchioline habitats are locally known by a variety of names: the most notable being Australia's "sinkholes", Belize's and the Bahamas' "blue holes", and the Yucatan's "cenotes" (from the Maya word *ts'ono't*, Jaume et al., 2001; Liffé & Kornicker, 2009; Humphreys et al., 2012). These habitats can take a variety of different forms including pools, lava tubes, faults in volcanic rock, karstic limestone cave systems, and connected groundwater (Fig. 2, Liffé, 1992; Namiotko et al., 2004; Becking et al., 2011; Myroie & Myroie, 2011), yet they all share the same characteristic patterns of stratification and limited biological connectivity with surrounding environments (Kano & Kase, 2004; Hunter et al., 2007; Foster, 2007).

Anchioline caves have a relatively young history in their current state and locations (Myroie & Myroie, 2011), originating when formerly dry caves were flooded by rising post-glacial sea-levels in the early Holocene (11,650-7000 years ago, Becking et al., 2011; Smith et al., 2011). However, anchioline habitats have existed for millions of years (Liffé, 2000; Suárez-Morales et al., 2004; Sathiamurthy & Voris, 2006; Becking et al., 2011). Previous studies of cave geology have shown that a great number of extensive and complex caves were formed by the cyclical sea-level changes associated with the Quaternary period (~2.5 million years ago to present, Myroie & Myroie, 2011), while the fossil record indicates that the putative ancestors of modern anchioline fauna were already present in marine systems hundreds of million years ago (e.g., remipedes ~328-305 mya, atyid shrimp ~145-99 mya, Brooks, 1955; Emerson, 1991; von Rintelen et al., 2012; Moritz et al., 2014). It is therefore possible that the colonization of anchioline caves and similar marine crevicular habitats has been occurring since at least the late Jurassic (i.e., the thaumatocyprid ostracod *Pokornypopsis fejeffi* Triebel, 1941).

Ground penetrating radar search for buried cave entrance

Fig. 4. Photo of the Skipi area from 2015 at the time of the GPR measurements. The entrance of the S-19 cave is covered by a thick layer of debris. At the top of the picture the same shelter as in Fig. 2a is visible and at the right the cable-car station. Blue line shows the NE limit of the study area.

The speleological explorations of the Kanin massif started in the 1960s at the lower part of the Kanin plateau, but only a few deeper caves were found (Pirnat, 2002). In 1974 a cable-car was constructed to the Kanin-plateau (Kunaver et al., 2011), which improved the capabilities for cave exploration. However, the fate of the S-19 cave, which is located in the vicinity of one of its intermediate stations (Figs. 1 and 4), is connected to the construction of this cable-car. This cave was explored in 1974 to the depth of 177 m with open continuation and was the deepest explored so far (Pirnat, 2002). But due to a big snow avalanche, which damaged the cable-car station during the next winter, a huge protection dyke was later built across the cave. It was a great drawback for speleologists that the access to one of the most promising caves in the area was lost.

Fig. 2. Anchioline systems can be found in a range of different forms including (but not limited to): A) karst cave systems (Crystal Cave, Bermuda – photo by Jill Heinerich); B) lava tubes (Jameos del Agua, Lanzarote, Canary Islands, Spain – photo by Jill Heinerich); and C) pools (Angel Pool, Bermuda – photo by Tamara Thomson).

Fig. 3. Examples of various crustacean taxa found in anchioline caves: A) *Parhippolyte sterveri* (Decapoda); B) *Pseudoniphargus grandimanus* (Amphipoda); C) *Bahalana caicosana* (Isopoda); D) *Tulumella* sp. (Thermosbaenacea); E) *Microcaris halope* (Mictacea); F) *Bermudamysis speluncola* (Mysida); G) *Cumella abacoensis* (Cumacea); H) *Ridgewayia* sp. (Calanoida); I) *Spelaeocia* sp. (Ostracoda); J) *Cryptocorynetes* sp. (Remipedia). Photographs of anchioline crustaceans by

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Layout Process

- Editor has a final look over the draft

- We do final corrections and publish the paper

The screenshot shows the website for the International Journal of Speleology. At the top, there are navigation links for Configuration, Reports, and Manage Submissions. Below this is a large banner image of a cave interior with stalactites and people. The journal title 'International Journal of Speleology' is prominently displayed. A sidebar on the left contains links for 'MY ACCOUNT', 'FAQ', 'ABOUT THIS IR', and 'SCHOLAR COMMONS', along with a list of site pages like 'Journal Home', 'About This Journal', 'Aims & Scope', etc. The main content area shows the current volume and issue: 'VOLUME 45, ISSUE 2 (2016)'. Below this, there is an 'ARTICLES' section with three entries, each with a PDF icon and a brief description of the article's topic.



Age re-assessment of the cave bear assemblage from Urşilor Cave, north-western Romania

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Abstract: The most common methods used for assessing the relative age of a cave bear bone assemblage are the P^4 index (morphodynamic index of the cave bear fourth premolar), the K-index, and the Index of Plumppness (both used for cave bear's 2nd metatarsal). Preliminary work on these indexes, for Urşilor Cave (NW Romania), has indicated one of the youngest European cave bear populations. As the number of extracted fossil bones from the paleontological excavation increased recently, a re-assessment of the age of the cave bear assemblage is necessary. 206 cave bear fourth lower and upper premolars and 587 metapodials were analyzed. The P^4 , morphodynamic index, the K-index and the Index of Plumppness were calculated for the local MIS 3 cave bear bone assemblage. The results of the three indices have lower values when compared with the previously obtained for the same site and respect the subsequent radiometric ages (ca. 47-39 ky BP). However, the results for P^4 , morphodynamic index, K-index, and Index of Plumppness are of lesser relevance when used to assess the relative age of MIS 3 cave bear bone assemblages. All three methods require caution when applied and interpreted on short time intervals and on smaller geographic areas.

Keywords: *Ursus spelaeus*; biochronology; P^4 ; morphodynamic index; K-index; Urşilor Cave; Upper Pleistocene; Romanian Carpathians
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INTRODUCTION

The biochronology of fossil species is used for assessing the relative age of a bone assemblage. At the end of the 1980s and 1990s, Rabeder (1989, 1999) developed a biochronological index for cave bear assemblages, based on the evolutionary trend of the fourth premolars (P^4 index). This method can be applied when there is no radiometric age control for the fossils. The main issue with the morphodynamic index of the Marine Isotopic Stage 3 [MIS 3 (59-24 ky BP - Pettitt & White, 2012)] cave bear bone assemblages is that the method has standard errors that are too large when compared with the length of this period. Nonetheless, the obtained P^4 indices, plotted together with the results recorded for other sites, may provide a general time frame for the evolutionary level of a given cave bear population.

Another biochronological proxy often used in the cave bear research is the K-index. The K-index of the 2nd metatarsal is a suitable indicator of the evolutionary stage of a cave bear population, from the postcranial skeleton (Withalm, 2004). As older cave bear fauna

shows lower K-index values when compared with those from younger strata and this method shows a significant correlation with the radiometric scale, it represents a biochronological proxy for the age of cave bear bone assemblages (Withalm, 2001).

The Index of Plumppness (= *robustness*; Ip), applied on metapodials, is used as well for biochronological purposes. It has been shown that towards cave bears' extinction, Ip values increased as the metapodials became more robust (Withalm, 2001). As in the case of K-index, the most biochronologically relevant are the measurements on the 2nd metatarsals, since this bone seems to be less affected by the sexual dimorphism or by the ontogenetic variability like the other metapodials (Withalm, 2004).

For central and western European cave bear sites morphological studies based on dental features (Rabeder, 1995) that later were confirmed by molecular results (Hoffreiter et al., 2004), proposed two distinct species within the European MIS 3 cave bear group: *U. spelaeus* and *U. ingressus* (Rabeder et al., 2004). This species corresponds to the western clade of the group, while the second species

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