SOLSTICE ARCHIVES

Click the issue you wish to read; Volumes I to V are typeset using TeX. For typeset TeX articles containing images, see the Monograph Series. All materials copyrighted; all rights reserved world wide.

SOLSTICE:
An Electronic Journal of Geography and Mathematics.

(Major articles are refereed; full electronic archives available).

Persistent URL: http://deepblue.lib.umich.edu/handle/2027.42/58219

2010

IMaGe Silver Jubilee

SOLSTICE,
VOLUME XXI, NUMBER 2;
December, 2010

Front matter: December, 2010.
Editorial Board, Advice to Authors, Mission Statement
Awards

Patterns, Maps, and Fractals:
The Case of United Kingdom Historical Data Sets
Sandra L. Arlinghaus and Michael Batty

Mapping It Out! A Contemporary View of Burgess's

Concentric Ring Model of Urban Growth
Sandra L. Arlinghaus and Daniel A. Griffith

The Quest to Save Honey:
Tracking Bee Pests Using Mobile Technology
Diana Sammataro and Sandra L. Arlinghaus

Google Earth: A Platform for Open Data
Roger Rayle

The Perimeter Project, Part 4:
Connections: Scholarly Multi-tasking in a Mobile Virtual World
Associated .kmz file
Sandra L. Arlinghaus and William E. Arlinghaus

Mail

Solstice Archive

2010

IMaGe Silver Jubilee

SOLSTICE,
VOLUME XXI, NUMBER 1;
June, 2010

Front matter: June, 2010.

Editorial Board, Advice to Authors, Mission Statement

Awards

Sandra L. Arlinghaus and Joseph J. Kerski

The Perimeter Project, Part 3:
Fragile Lands Protection Using Cemetery Zoning
Associated .kmz file
Sandra L. Arlinghaus and William E. Arlinghaus

Zipf's Hyperboloid--Revisited:
Compression and Navigation--Canonical Form
Sandra L. Arlinghaus
with input from an earlier article as part of an ongoing collaboration with
Michael Batty

Fractals Take A Non-Euclidean Central Place
Sandra L. Arlinghaus

Solstice Archive

2009

HAPPY TWENTIETH ANNIVERSARY!

SOLSTICE,
VOLUME XX, NUMBER 2;
DECEMBER, 2009.

Front matter: December, 2009.
Editorial Board, Advice to Authors, Mission Statement

Awards

ARTICLES
(reviewed)

The Perimeter Project, Part 2:
Fragile Lands Protection Using Cemetery Zoning
Associated .kmz file
Associated video file (with thanks to Roger Rayle)
Sandra L. Arlinghaus and William E. Arlinghaus

Southeast Asia: Historical Place Names Visualized in Google Earth
Sandra Lach Arlinghaus and Robert F. Austin
See Revised Monograph #4, below.

Essays on Mathematical Geography: Contemporary Visualizations
Sandra L. Arlinghaus
See Revised Monograph #3, below

NOTES

Emergency Phones: A Google Earth Approach
Sandra L. Arlinghaus

3D Annotated Archive
Sandra L. Arlinghaus

Revised eBooks and eBook Supplements,
Reflecting the power of current technology

IMaGe Monograph #3:
Sandra L. Arlinghaus, 1986.

Essays on Mathematical Geography.
Link to original
Link to supplementary material--see notation above

IMaGe Monograph #4:
Robert F. Austin, 1986.
A Historical Gazetteer of Southeast Asia.
Link to original
Link to supplementary material--see notation above

Solstice Archive

2009

HAPPY TWENTIETH ANNIVERSARY!

SOLSTICE,
VOLUME XX, NUMBER 1;
JUNE, 2009.

Front matter: June, 2009.
Editorial Board, Advice to Authors, Mission Statement.

Awards

ARTICLES
(reviewed)

The Perimeter Project: Fragile Lands Protection Using Cemetery Zoning
Sandra L. Arlinghaus and William E. Arlinghaus

Bee Ranges and Almond Orchard Locations: Contemporary Visualization
Sandra L. Arlinghaus and Diana Sammataro

Air Pollution Changes in the Detroit Metro Area from 1988 - 2004
Kerry Ard

eBOOKS

New eBook

Spatial Synthesis: Volume II, Book 4

(requires use of Google® Earth as browser)

Revised eBooks and eBook Supplements,

Reflecting the power of current technology

IMaGe Monograph #1:
Sandra L. Arlinghaus and John D. Nystuen, 1986.
Mathematical Geography and Global Art:
the Mathematics of David Barr's `Four Corners Project'.
Link to original
Link to supplementary material

IMaGe Monograph #2:
Sandra L. Arlinghaus, 1986.
Down the Mail Tubes: the Pressured Postal Era, 1853-1984.
Link to original
Link to supplementary material

ANNOUNCEMENTS

Related Conference
GooglEarthDay: April 22, 2009
Program
Video Link
Photo Link

Solstice Archive

2008

SOLSTICE,
VOLUME XIX, NUMBER 2;
DECEMBER, 2008.

Front matter: December, 2008.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Introduction

ARTICLES
(reviewed)

Electronic Journals:
Then and Now...

A Fifteen Year Retrospective
Sandra Lach Arlinghaus and Richard H. Zander

Charting the Past: Population-Environment Dynamics
Sandra Arlinghaus and Michael Batty

Project Archimedes: Google Earth Experiments in Innovative Scientific Communication
Sandra Lach Arlinghaus

ANNOUNCEMENT

New eBooks

Spatial Synthesis: Volume II, Book 1:
Scientific, Planning, Humanitarian, and Teaching Applications,
From DevInfo to Google Earth

Spatial Synthesis: Volume II, Book 2:
Making It Clear: The Importance of Transparency

GooglEbooks (requires use of Google® Earth as browser):
Spatial Synthesis: Volume II, Book 2:
Making It Clear: The Importance of Transparency

Spatial Synthesis: Volume II, Book 3.
Population-Environment Dynamics: The Power of the Network Link

Mail

Solstice Archive

2008

SOLSTICE,
VOLUME XIX, NUMBER 1;
JUNE, 2008.

Front matter: June, 2008.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Introduction

ARTICLES

(reviewed)

Google Earth Applications in a Community Information System: Scio Residents for Safe Water
Roger Rayle

Huron River Tour, Ann Arbor
Matthew Naud

Detroit North American Bridge Championship: the Google Earth Display
Sandra Lach Arlinghaus

Unit 174
American Contract Bridge League Bridge Clubs:
Greater Houston
Bert Onstott

Another Tale of Two Cities
Neighborhood Watch from Ann Arbor to Baghdad
Sandra Lach Arlinghaus

Real-time Animation Scripts for Google Earth
Lars Schumann

NOTES

Mouth Geography...Or, Sleep Apnea and Linguistics?
William E. Arlinghaus

Deep Blue: IMaGe Author Applets
Sandra Lach Arlinghaus

Mail

Solstice Archive

Cover background bus animation from Lars Schumann's work in this issue.

2007

SOLSTICE, VOLUME XVIII, NUMBER 2; DECEMBER, 2007.

Front matter: December, 2007.
Editorial Board, Advice to Authors, Mission Statement.

Awards
(contains recent listing of "blue ribbons" from the "Best of the Google 3D Warehouse")

SPECIAL ISSUE ON PROJECTIVE GEOMETRY CONSTRUCTIONS

ARTICLES
(reviewed)

Sandra Lach Arlinghaus

The Animated Pascal

Sandra Lach Arlinghaus

Desargues's Two-Triangle Theorem

Sandra Lach Arlinghaus

ANNOUNCEMENT and INVITATION

New Student Series in IMaGe eBooks

IN MEMORIAM

ALLEN K. PHILBRICK

NORTON S. GINSBURG

Mail

Solstice Archive

2007

SOLSTICE, VOLUME XVIII, NUMBER 1; JUNE, 2007.

Front matter: June, 2007.
Editorial Board, Advice to Authors, Mission Statement.

Awards

ARTICLE
(reviewed)

Spatial Analysis through the Looking Glass
Peter Martin

ANNOUNCEMENT

3D Atlas of Ann Arbor, 3rd Edition

Sandra Lach Arlinghaus

NOTES

Update on the Varroa Mite Map
Diana Sammataro
[with Editorial Commentary]

Editorial Commentary on Essays of this Section

The Prediction of Indian Monsoon Rainfall: A Regression Approach
Goutami Bandyopadhyay

Autocorrelation Structure Analysis and Auto Regressive Prediction of the Time Series of Mean Monthly Total Ozone overArosa, Switzerland
Goutami Bandyopadhyay and Surajit Chattopadhyay

Mail

Solstice Archive

2006

SPECIAL ISSUE ON INTERNET GEOMETRY AND GEOGRAPHY

SOLSTICE, VOLUME XVII, NUMBER 2; DECEMBER, 2006.
SPECIAL ISSUE ON INTERNET GEOMETRY AND GEOGRAPHY

Front matter: December, 2006.

Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Introduction to the Special Issue

Visualizing Rank and Size of Cities and Towns
Part I: England, Scotland, and Wales, 1901-2001
Part II: Greater London, 1901-2001
Sandra Arlinghaus and Michael Batty

Visualizing a Map of Walter Christaller, Poland 1941
Part I: Benchmarking the Map.
Part II: Interpolation of the Benchmarked Map.
Sandra Lach Arlinghaus

NOTES:

Update on the Varroa Mite Map
Diana Sammataro

Announcement: 3D Atlas of Ann Arbor, 2nd Edition;
Banda Aceh: A View on the Globe
Sandra Lach Arlinghaus

Mail

Solstice Archive

2006

CURRENT ISSUE
SOLSTICE, VOLUME XVII, NUMBER 1; JUNE, 2006

Cover

Front matter: June, 2006.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Waldo Tobler
Looking at Some Data from Isard
From a presentation given at the Western Regional Science Association in Santa Fe, New Mexico, February, 2006.

Sandra L. Arlinghaus and William C. Arlinghaus
Maps and Decisions: Part II--Ambiguity; Part III--Redistricting; Part IV--Club Data

Sandra Lach Arlinghaus
3D Atlas of Ann Arbor: The Google Earth$^{Â®}$ Approach
Part I; Part II

Research Announcement:

Sandra L. Arlinghaus and Michael Batty
Zipf's Hyperboloid?

Book Reviews:

Wildberger, Norman
Divine Proportions: Rational Trigonometry to Universal Geometry.
Review by S. Arlinghaus

William C. Arlinghaus
PseudoCoup$^{Â®}$: A Psubtle Puzzle
Link to Solution

Mail

Solstice Archive

2005

CURRENT ISSUE
SOLSTICE, VOLUME XVI, NUMBER 2; WINTER, 2005.

Cover

Front matter: Winter, 2005.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Veronique Van Acker and Frank Witlox
Exploring the Relationships between Land-use System and Travel Behaviour Concepts: Some First Findings
[ed.] This file displays best in Microsoft Internet Explorer or Avant browsers

Waldo Tobler
Using Asymmetry to Estimate Potential
From a talk given in Redondo Beach, CA--1005.
[ed.] Readers who enjoy Professor Tobleri¿½s article may also wish to consider work by Jerrold Grossman involving Research on Collaboration in Research, http://www.oakland.edu/enp/research.html, and related topics on Professor Grossmani¿½s home page, http://personalwebs.oakland.edu/~grossman/

John D. Nystuen
Photo Essay: The Emerald Ash Borer
Photos in this essay looked best using screen set at highest resolution available.

Sandra L. Arlinghaus and William C. Arlinghaus
Beyond the Shadow
Variation on a submission for the Pirelli Relativity Challenge of 2005.

NEWS: UPDATE ON THE 3D ATLAS OF ANN ARBOR

Sandra Lach Arlinghaus
Archimedes in Ann Arbor?

Alyssa J. Domzal, Ui Sang Hwang, and Kris J. Walters, Jr.
Virtual Flood in the Allen Creek Floodplain and Floodway

Mail

Solstice Archive

2005

CURRENT ISSUE
SOLSTICE, VOLUME XVI, NUMBER 1; SUMMER, 2005.

Cover

Front matter: Winter, 2005.
Editorial Board, Advice to Authors, Mission Statement.

Awards

In Memoriam
Frank Harary
Saunders Mac Lane

Articles (reviewed):

Spatial Synthesis
The Evidence of Cartographic Example: Hierarchy and Centrality
Sandra Lach Arlinghaus

Kioskland: A Strategy for Linking Hierarchical Levels of Virtual Reality Maps
Sandra Lach Arlinghaus et al.

Research Announcements

A Methodology for Historical Geography: Internet Implementation
Ann Evans Larimore with Sandra Lach Arlinghaus and Robert Haug

Spatial Synthesis: Investigations in Progress
Sandra Lach Arlinghaus

Mail

Solstice Archive

2004

CURRENT ISSUE
SOLSTICE, VOLUME XV, NUMBER 2; WINTER, 2004.

Cover

Front matter: Winter, 2004.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Spatial Synthesis: 3D Atlas of Ann Arbor
Sandra Lach Arlinghaus

Cross-discipline Analogy: Information Impedance Matching
Peter Martin

Goode's 80th!
Sandra Lach Arlinghaus

Notes, Research Announcements, and Observations

Continental USA Travel Tracks
Gottfried Hogh

Two Rivers Ridge: Capturing Art
Sandra Arlinghaus and Braxton Blake

Mail

Solstice Archive

2004

CURRENT ISSUE
SOLSTICE, VOLUME XV, NUMBER 1;

JUNE, 2004.

Cover

Front matter: Summer, 2004.
Editorial Board, Advice to Authors, Mission Statement.

Awards **to Solstice Authors**

Articles (reviewed):

Sandra Lach Arlinghaus and William Charles Arlinghaus
Spatial Synthesis Sampler.
Geometric Visualization of Hexagonal Hierarchies: Animation and Virtual Reality

Klaus-Peter Beier
One Optimization of an Earlier Model of Virtual Downtown Ann Arbor

Frank J. A. Witlox, Aloys W. J. Borgers, Harry J. P. Timmermans
Modelling Locational Decision Making of Firms Using Multidimensional Fuzzy Decision Tables: An Illustration

Sandra L. Arlinghaus, Fred J. Beal, and Douglas S. Kelbaugh
The View from the Top: Visualizing Downtown Ann Arbor in Three Dimensions

Marc Schlossberg
Visualizing Accessibility II: Access to Food

Summer in the Northern Hemisphere is Winter in the Southern Hemisphere...

Peter A. Martin
Energy Flow: Spatial and Temporal Patterns

Alma S. Lach
Winter Windows: Ice Largo

Seung-Hoon Han
Spatial Analysis of Subway Zones in Boston, Massachusetts

Andrew Walton
A Golfer's Resource: Huron Hills Golf Course, Ann Arbor, Michigan

Thana Chirapiwat (link to his server, unreviewed material)
Visualization of Geographic Information with VRML

Mail

2003

CURRENT ISSUE
SOLSTICE, VOLUME XIV, NUMBER 2; WINTER, 2003.

Cover

Front matter: Winter, 2003.
Editorial Board, Advice to Authors, Mission Statement.

Awards **to Solstice Authors**

Articles (reviewed):

Sandra Arlinghaus, Robert Haug, Ann Larimore
Lewis and Clark, 200 Years: A Visual Tribute to an Exploration.
The Gates of the Rocky Mountains.

Surajit Chattopadhyay

- Dependence of Production of Paddy on the Total Annual Rainfall: A Different Approach
- Combating the complexity in spatial data: A neuronal approach

Sandra Lach Arlinghaus
Ann Arbor, Michigan: Virtual Downtown Experiments, Part II

Taejung Kwon, Adrien A. Lazzaro, Paul J. Oppenheim, Aaron Rosenblum
Ann Arbor, Michigan: Virtual Downtown Experiments, Part III

Mail

About: Tornado Siren Location: Ann Arbor, Michigan

- Letter from United States Member of Congress, John Dingell
- Quotations **from articles from The Ann Arbor News.**
- Address Change from Diana Sammataro

2003

CURRENT ISSUE
SOLSTICE, VOLUME XIV, NUMBER 1; SUMMER, 2003.

Cover

Front matter: Summer, 2003.
Editorial Board, Advice to Authors, Mission Statement.

Awards **to Solstice Authors**

In Memoriam

Articles (reviewed):

Sandra Arlinghaus, Michael Batty, and John Nystuen
Animated Time Lines: Coordination of Spatial and Temporal Information

Sutapa Chaudhuri and Surajit Chattopadhyay
Viewing the relative importance of some surface parameters associated with pre-monsoon thunderstorms through Ampliative Reasoning

Kulwinder Kaur

On L^1-Convergence of Modified Sine Sums
TeX file link.

Sandra Lach Arlinghaus
1. Ann Arbor, Michigan: Virtual Downtown Experiments

2. Tornado Siren Location: Ann Arbor, Michigan

Special section, I, on Ann Arbor, Michigan.
In commemoration of years of town/gown cooperation, associated with students in courses taught by S. Arlinghaus, 1992-present at The University of Michigan. Thanks to the following individuals in the City of Ann Arbor who made these projects possible. They have graciously supplied maps, aerials, and wise counsel on a regular basis:

- **Merle Johnson, GIS Expert, Information Technology Services, City of Ann Arbor**
- **Karen Hart, Planning Director, Planning Department, City of Ann Arbor**
- **Wendy L. Rampson, City Planner III, Planning Department, City of Ann Arbor**
- **Coy Vaughn, City Planner III, Planning Department, City of Ann Arbor**
- **Jeff Kahan, City Planner II, Planning Department, City of Ann Arbor**
- **Chandra Hurd, City Planner II, Planning Department, City of Ann Arbor**
- **Matthew Kowalski, Assistant Planner, Planning Department, City of Ann Arbor**
- **Heather R. Edwards, Historic Preservation Coordinator, City of Ann Arbor**
- **Matthew Naud, Environmental Coordinator, City of Ann Arbor**
- **Ethel Potts, Zoning Board of Appeals**
- **Jean Carlberg, City Council**

Please e-mail if interested in files that are no longer posted; they may be available.

New Projects in Solstice, reflecting interaction between University of Michigan students (or others) and municipal authorities.	Links to existing projects already published in Solstice.	Links (and citations) to older projects, not in Solstice, reflecting interaction between University of Michigan students and municipal authorities
• Parks and Schools Directory: Ann Arbor/Pittsfield, Peter Z. Acuff, Winter 2003 • **Bike Parking in Downtown Ann Arbor**, Simon VanLeeuwen, Winter 2003	• The Relationship between Bicycle Accidents and Lanes of Travel at Downtown Ann Arbor Intersections, Hyeyun Lee • Maps and Decisions: Allen's Creek	• **Field Test Site: Pall Gelman Sciences** Matthew Gamache, 2002. • Parking counts for Planning Department by David Brandt and Jacob Frysinger. • Ann Arbor Creeksheds: Resource Website, Sandra L.

(use Internet Explorer).

- **Urbanimals Map,**

  Emile Lauzzana, Winter 2003.
- **Ann Arbor Historic Preservation**, Ronald Keolian, Rachel Hornstein, and Vanessa Reisin, Fall 2002
- **Clean Waters and Green Lawns, Ann Arbor Michigan**,

  Adam Pettinger, Alan Striegle, Brad Fuzak, and Kathryn King, Fall 2002,

Floodplain, Opportunity or Disaster?

Sandra Lach Arlinghaus

- **A Neighborhood Information System within Ann Arbor, Michigan.**

  Sandra L. Arlinghaus and Lloyd R. Phillips.
- **Elements of Spatial Planning: Theory. Part I, Part II.**

  Sandra L. Arlinghaus.

Arlinghaus, 2001.

- **Digital Flood Map Project: Township Island Component**,

  Milo Tilton, Fall 2001
- **The Ann Arbor Freeway System**,

  Michael Baysdell, Fall 2000.
- **Fazoli Site: Baseline Study**.

  Jocelyn La Face, Summer 1999.
- **Surface Flow and Steep Slopes Resource Page**

  Sandra L. Arlinghaus, 1999.
- Rosalyn Scaff, Fall 1999. Base for current city site.

  Project funded through the City of Ann Arbor; she won a "Community Service Professional Award" for her work (along with Wendy Rampson, Chandra Hurd, and Sandra Arlinghaus).
  Ongoing work to update this material by Wayne Buente.
- **A History of Landscape Change in a Neighborhood of Ann Arbor,**

  Katya Podsiadlo, Fall 1998.
- Amie Ottinger, Fall 1997. Base for a Parks website dealing with prescribed burns.

Mail

Solstice Archive

2002

CURRENT ISSUE
SOLSTICE, VOLUME XIII, NUMBER 2; WINTER, 2002.

Cover

Front matter: Winter, 2002.
Editorial Board, Advice to Authors, Mission Statement.

Articles (reviewed):

Marc Schlossberg
Visual Accessibility with GIS

Robert F. Austin
Cost Proxy Models in Rural Telephone Companies

Surajit Chattopadhyay
Predicting Pre-monsoon Thunderstorms--
A Statistical View through Propositional Logic

Robert F. Austin and Porter E. Childers
Disaggregation and Targeting of Universal Service Support

Kulwinder Kaur, Babu Ram, and S. S. Bhatia
TeX file **for the reader to run LaTeX, or, a .pdf below:**
L^1-Convergence of Cosine Series with Hyper Semi Convex Coefficients

Sandra L. Arlinghaus and William C. Arlinghaus
Spatial Synthesis: A Research Program

Solstice Archive

2002

CURRENT ISSUE
SOLSTICE, VOLUME XIII, NUMBER 1; SUMMER, 2002.

Cover

Front matter: Summer, 2002.
Editorial Board, Advice to Authors, Mission Statement.

Research Note:

Sandra Arlinghaus, Salma Haidar, and Mark Wilson
Animated Map Timeline, Syria

Articles (reviewed):

B. Derudder and F. Witlox
Classification Techniques in Complex Databases:

Assessment of Vagueness and Sparsity in a Network of World Cities

John D. Nystuen
The ThÃ¼nen Society, North American Division

Sandra Lach Arlinghaus
The Lights Are On, All Over the World

Mapping Projects, Urban Planning 507, 2002
The University of Michigan
(selections):

Interactive Internet Maps:

- **Eun-Young Kim:**
  Bus Stops and Bus Users in the City of Detroit
- **Hyeyun Lee (also includes animated maps):**
  The Relationship between Bicycle Accidents and Lanes of Travel at Downtown Ann Arbor Intersections

Animated Maps:

- **Jeanine Chura McCloskey:**
  Beach Closures in Oakland County, Michigan: Using GIS as an Investigative Tool
- **Makoto Noguchi:**
  The Possibility of Extending the Streetcar Line in Kagoshima City, Japan

Materials Received

Solstice Archive.

2001
Volume XII, Number 1

-
- **Front matter: Summer, 2001**
  -
  -
- **Articles:**
  - **John D. Nystuen, Photo Essay.** (High-speed connection recommended.)
  - **Sandra L. Arlinghaus and William C. Arlinghaus**
  - **Sandra Lach Arlinghaus**
- **Book Reviews:**
  - **Kameshwari Pothukuchi reviewer of:** **by Eric Schlosser, New York: Houghton Mifflin, 2001.**
  - **Richard R. Wallace reviewer of:** **edited by Donald A. SchÃƒÆ'Ã‚Â¶n, Bish Sanyal, and William J. Mitchell, MIT Press, 1999.**

2001

Volume XII, Number 2

-
- **Front matter: Winter, 2001--**
- **Articles:**
  - **Waldo Tobler,**
  - **John D. Nystuen,**
  - **Sandra Lach Arlinghaus,**

2000
Volume XI, Number 1

Front matter: Summer, 2000

John D. Nystuen

Richard Wallace

Sandra Lach Arlinghaus

On a slow modem this article will take a long time to load.

Review of: Arundhati Roy, *The Cost of Living*, Modern Library, 1999, 126 pp., $11.95 (pap.).
Reviewer: Richard Wallace.

2000
Volume XI, Number 2

Front matter: Winter, 2000

To the Memory of Donald Frederick Lach, 1917-2000

John D. Nystuen, Photo Essay

(High-speed connection recommended.)
Sandra L. Arlinghaus and Lloyd R. Phillips

Courtney Gober

Nakia D. Baird

(High-speed connection recommended)

1999
Volume X, Number 1

Front matter: Summer, 1999.

Dedication

John D. Nystuen,

Sandra L. Arlinghaus and William C. Arlinghaus.

Richard Wallace. Book Review:

, John Wiley & Sons, 1998, 352 pp., $69.95 (cloth).
Seema Desai Iyer. Book Review:

Malden, MA: Blackwell Publishers, Inc. (556 pages, bibliography 51 pages, index 23 pages).

1999
Volume X, Number 2

Front matter: Winter, 1999

Jeffrey A. Nystuen

Sandra L. Arlinghaus

Books Received; Brief Summaries:
Julius S. Bendat,
Paul M. DeRusso, Rob J. Roy, Charles M. Close, Alan A. Desrochers,

1998
Volume IX, Number 1,

Front matter: Summer, 1998.

Sandra L. Arlinghaus, William D. Drake, and John D. Nystuen with data and other input from: Audra Laug, Kris S. Oswalt, and Diana Sammataro.
Frank E. Barmore (reprinted, in part, from The Wisconsin Geographer (with permission)).

Sandra L. Arlinghaus, Ruben De la Sierra.
John D. Nystuen. Book Review:

1998
Volume IX, Number 2

Front matter: Winter, 1998.

Sandra Lach Arlinghaus.
Sandra Lach Arlinghaus.
Daniel Albert. Book Review:

1997
Volume VIII, Number 1
Front matter: Summer, 1997

Author: John D. Nystuen.

Author: Frank Harary.

1997
Volume VIII, Number 2
Front matter: Winter, 1997.

John D. Nystuen.

Sandra L. Arlinghaus, Frederick L. Goodman, Daniel A. Jacobs.

Sandra L. Arlinghaus, William C. Arlinghaus.

John D. Nystuen, Andrea I. Frank.

1996

John D. Nystuen, Rhonda Ryznar, Thomas Wagner. "The Greening of Detroit, 1975-1992: Physical Effects of Decline."
Sandra Lach Arlinghaus. "Algebraic Aspects of Ratios."
Daniel Jacobs. "U.S. Route 12 Buffer."

1996

Sandra Lach Arlinghaus. "Web Fractals: An Overview."
Sandra Lach Arlinghaus. "Part II. Elements of Spatial Planning. Theory. Merging Maps: Node Labeling Strategies.

1995

Richard Wallace: "Motor Vehicle Transport and Global Climate Change: Policy Scenarios."
Sandra L. Arlinghaus, William C. Arlinghaus, John D. Nystuen: "Discrete Mathematics and Counting Derangements in Blind Wine Tastings."

1995

Sandra Lach Arlinghaus: "Elements of Spatial Planning: Theory. Part I."

1994

Virginia Ainslie and Jack Licate: "Getting Infrastructure Built. Cleveland Infrastructure Team Shares Secrets of Success."
Frank E. Barmore: "Center Here; Center There; Center, Center Everywhere."

Barton R. Burkhalter: "Equal-Area Venn Diagrams of Two Circles: Their Use with Real-World Data."
Sandra L. Arlinghaus, William C. Arlinghaus, Frank Harary, John D. Nystuen. "Los Angeles, 1994--A Spatial Scientific Study."

1994

Sandra L. Arlinghaus, William C. Arlinghaus, Frank Harary: "The Paris Metro: Is its Graph Planar?"
Sandra Lach Arlinghaus: "Interruption!"
Reprint. Michael F. Dacey: "Imperfections in the Uniform Plane."

1993

Sandra L. Arlinghaus and Richard H. Zander: "Electronic Journals: Observations Based on Actual Trials, 1987-Present."
John D. Nystuen: "Wilderness As Place."
Frank E. Barmore: The Earth Isn't Flat. And It Isn't Round Either: Some Significant and Little Known Effects of the Earth's Ellipsoidal Shape."
Sandra Lach Arlinghaus: "Micro-cell Hex-nets?"
Sandra L. Arlinghaus, William C. Arlinghaus, Frank Harary: "Sum Graphs and Geograhic Information."

1993

William D. Drake, S. Pak, I. Tarwotjo, Muhilal, J. Gorstein, R. Tilden. "Villages in Transition: Elevated Risk of Micronutrient Deficiency."

1992

Harry L. Stern: "Computing Areas of Regions with Discretely Defined Boundaries."
Sandra L. Arlinghaus, John D. Nystuen, Michael J. Woldenberg: "The Quadratic World of Kinematic Waves."

1992

Reprint. Frank Harary: "What Are Mathematical Models and What Should They Be?"
Frank E. Barmore: "Where Are We? Comments on the Concept of Center of Population."
Sandra L. Arlinghaus and John D. Nystuen: "The Pelt of the Earth: An Essay on Reactive Diffusion."

1991

Sandra L. Arlinghaus, David Barr, John D. Nystuen: "The Spatial Shadow: Light and Dark--Whole and Part."

1991

Reprint. Saunders Mac Lane: "Proof, Truth, and Confusion, The Nora and Edward Ryerson Lecture at The University of Chicago in 1982."
Robert F. Austin: Digital Maps and Data Bases: Aesthetics versus Accuracy."

1990

Reprint. William Kingdon Clifford: "Postulates of the Science of Space."
Sandra Lach Arlinghaus: "Beyond the Fractal."
William C. Arlinghaus: "Groups, Graphs, and God"

1990

John D. Nystuen: "A City of Strangers: Spatial Aspects of Alienation in the Detroit Metropolitan Region."
Sandra Lach Arlinghaus: "Scale and Dimension: Their Logical Harmony."
Sandra Lach Arlinghaus: "Parallels Between Parallels."
Sandra L. Arlinghaus, William C. Arlinghaus, and John D. Nystuen: "The Hedetniemi Matrix Sum: A Real-world Application."
Sandra Lach Arlinghaus: Fractal Geometry of Infinite Pixel Sequences: "Super-definition" Resoultion?"

Institute of Mathematical Geography
1964 Boulder Drive
Ann Arbor, MI 48104

734.975.0246