

COMMUNITY SYSTEMS FOUNDATION THE 1990S...

S. Arlinghaus with input from K. Oswalt

During the 1990s, CSF was housed in a home at the corner of Church and Hill Street in Ann Arbor. The people who were there for large amounts of time, on a regular (daily) basis were: Bill Drake and Sandy Arlinghaus. Early on, Laura was the Administrator; later, Sandy Westrin joined in as Administrator. Also present in the house on a regular basis in the early part of the 90s were Jonathan Gorstein and Suzine Pak; they had offices on the third floor. Drake's office area was on the second floor, across the hall from the Conference Room and Library. Arlinghaus's office area was on the first floor adjacent to the map lab she created and across the hall from Oswalt's office. Others who came to the house fairly often (some more often than others) were: Fred Goodman, Carlos Mora, John Nystuen, Bill Arlinghaus, and a flock of students to see Arlinghaus or Drake. When Kris Oswalt was in town, he spent time in his office in the house and he and Drake helped to set up many of the early computer systems, digitizers, scanners, and other hardware and software; they also educated Arlinghaus to do similar engineering-style tasks.



Often seen around the house...left to right: Kris Oswalt, Bill Drake, Sandy Arlinghaus, Fred Goodman

Naturally, the house served as a home/office for individuals from other countries who came to participate in a CSF project. The nature of activities that took place there involved multiple approaches: those that generated funds, those that generated foundation name-recognition, and those that fostered learning and the inclusion of young people.

FUNDS

A few large projects were the focus of this decade, as outlined below. Other smaller ones filled in around these, as spinoffs from them. It is not clear if the smaller projects generated any substantial funds but they did generate opportunities of various related sorts. We begin with an enumeration of some major projects during this time period; more exist in the formal records of the Foundation

Acronyms:

RHMIS Reproductive Health MIS
ICDS Integrated Child Development Scheme (India)
IFPS Innovations in Family Planning Services (Uttar Pradesh, India)
CEDPA Center for Development and Population Activities
AED Academy for Educational Development

1996 RHMIS UNFPA Syria 1996 254k
School/Punjab USAID/AED 1996 81k
Nutrition DB UNICEF India 1996 15k
ChildInfo UNICEF 1996 32k
Nutrition/ICDS USAID/Impact 1996 46k
IFPS Project USAID/CEDPA Contract 3 16k
IFPS Project USAID/CEDPA Contract 4 19k

1997 Nutrition DB UNICEF India 1997 USD 4k
IFPS Project USAID/CEDPA Contract 4 USD 41k
IFPS Project USAID/CEDPA Contract 5 USD 144k
Nutrition/ICDS USAID/Impact 1997 USD 58k
School/Punjab USAID/AED 1997 USD 18k
Childwatch UNICEF 1997 USD 8k
Canal/Pakistan WB 1997 USD 14k

1998 IFPS Project USAID/CEDPA Contract 5 USD 52k
IFPS Project USAID/CEDPA Contract 6 USD 238k
ChildInfo UNICEF 1998 USD 215k

1999 IFPS Project USAID/CEDPA Contract 7 USD 208k
IFPS Project USAID/CEDPA Contract 8 USD 59k
ChildInfo UNICEF 1998 extn USD 2k
ChildInfo UNICEF 1999 USD 294k
Doc Sys UNICEF 1999 USD 10k
DevInfo India UN 1999 USD 36k

2000 IFPS Project USAID/CEDPA Contract 8 USD 243k
IFPS Project USAID/CEDPA Contract 9 USD 99k
ChildInfo UNICEF 1999 extn USD 98k
ChildInfo UNICEF 2000 USD 305
DevInfo India UN 2000 USD 38k
DevInfo MDV UN 2000 USD 10k

- ChildInfo Data Base and Mapping Information System (forerunner of DevInfo), UNICEF, from 1996 up to, but not including, ChildInfo2. In the outline above, you will see the movement over time from ChildInfo to DevInfo. A few links to related documents are listed below. These will be active in an eBook formulation.
 - User's Guide, South Asian Child Info Data Base and Mapping Information System, Version 1.0.
 - GIS for Planners: Hands-On Tutorial in Mapping Information Systems.

- Malnutrition in South Asia, ACC/SCN Symposium on Poverty and Nutrition, Kathmandu, 17 March 1997.
- Education for All 2000, A Conceptual Framework for Monitoring EFA (UNICEF)
- Poster samples: India; 1,2,3,4,5
- Syrian Ministry of Health, Maternal and Child Health Care /Family Planning, MIS, UNFPA. 1992-1997. There were six missions: three in Syria (Damascus) and three in Ann Arbor. People involved: Bill Drake, Kris Oswalt, Sandy Arlinghaus for CSF: Dr. Lama Al Mouaque and others, Syria (along with engineers Dr. Lama brought to Ann Arbor) for hands-on training with Arlinghaus and Drake—using a variety of software, including ChildInfo as a predominant focal point.
 - Mission 5: Maps
 - MCH/FP MIS. Database Preparation:
 - The Province Database
 - The District Database
 - The Health Centre Database
 - Geocoded Database with Latitude and Longitude
 - Animated Map. Data mapped over 14 months and animated to reflect spatial change in MCH/FP flows through time.
 - Combining GIS maps with other maps.
 - Directions for conversion from one mapping package to another (from ESRI with corrections).
 - Poster samples: Assessment:top, middle, bottom
 - Analysis:top, middle, bottom
 - Action:top, middle, bottom
 - Large poster from MOH data
 - Smaller poster from MOH data
- Punjab, Pakistan, Middle Schooling Project, Academy for Educational Development and World Bank. 1995-1997. Bill Drake, Kris Oswalt, Sandy Arlinghaus, Jamshed Tirmizi.
 - Posters prepared for the Punjab Middle Schooling Project, displayed as PowerPoint slides.
 - Assessment
 - Analysis
 - Action
 - Feedback: Sheikhpura District. The making of a map of many layers from locally obtained data.
 - Maps from Satellite Data: A Poster prepared for the Punjab Middle Schooling Project.
 - Zooming In: A Mini-poster prepared for the Punjab Middle Schooling Project.
 - Punjab: 1981 and 1995: Boundary comparisons by tehsil, district, division.
- Smaller Projects
 - Work with Rich Aishton in mapping parts of Russia and his associated field work there. Drake travelled with Aishton; Arlinghaus did mapping for them and adjusted error-filled Russian maps to fit with contemporary digital mapping capability.

- Projects in association with Edward VanderVelde involving issues in Pakistan and elsewhere in Asia.
- Software testing, in-house:
 - PopCalc, testing of program and documentation.
 - Mapping software: MapInfo, Atlas GIS, Windows with Arabic support in relation to GIS, ArcView.
 - Creation of early maps for ChildInfo: Bhutan, Nepal, using GIS in conjunction with the new large digitizer and scanner.
 - 3D mapping software: WooleySoft and other.
 - Evaluation of ways to transmit large files around the world: zipping software of various kinds.
- Digital Chart of the World: CSF acquired an early version of this software shortly after it was declassified and before it was “cleaned” to interface with more modern ESRI GIS software. Arlinghaus identified gaps in the mapped data, and Drake checked out two of them in the field.
 - Siberia—the gap in the map on the Baikal-Amur railway; Drake and Aishton found that the gap on the map was present in the field. In the process of discovery, they were held hostage for a brief time and had quite an adventure.
 - Pakistan—a gap in the contour pattern led Drake to an adventurous train ride, and more, through dangerous parts of Pakistan. Drake was taken in a cave and shown maps by candlelight of the regions of interest. He returned to Ann Arbor with mental images and crude drawings which Arlinghaus used a digitizer to try to capture.



The boundaries and names shown and the designations used on these maps do not imply official endorsement or acceptance by the United Nations. For maps showing Jammu and Kashmir, the (dotted) line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan.



NAME-RECOGNITION

- Publications mentioning CSF: hundreds during this time period archived on a variety of websites, some on CSF's site.
 - CRC handbooks (S. Arlinghaus), including articles about CSF projects of the time from Kris Oswald, Bill Drake, John Nystuen.
 - Numerous articles in *Solstice: An Electronic Journal of Geography and Mathematics*.
 - Articles in various professional journals in geography, mathematics, and related social sciences.
- Research Associates: Cathy Antonakos, Chuck Drake, Jeff Kupperman, Matthew Naud, Roger Rayle, Jeff Stanzler, Edward J. Vander Velde
- NRE 545: Population-Environment Dynamics course, taught at The University of Michigan, by Drake and Arlinghaus, 1992-1998. Full archive available on website: <http://www.umich.edu/~csfound/545/index.html> Names of students, below; some have remained in contact over the years.
 - 1992: Dawn M. Anderson, Katharine A. Duderstadt, Eugene A. Fosnight, Katharine Hornbarger, Deepak Khattry, Catherine MacFarlane, Gary Stahl, Stephen Uche, Hurng-jyuhn Wang.

- 1993: Tatiana Bailey, Sanjay S. B aliga, Brent C. Blair, Tamara Carnovsky, John Castanon, Juan Carlos Cervantes, Bruce Frayne, Ilia E. Hartasanches H., Roy Rojas Montero, Kameshwari Pothukuchi, Rhonda Ryznar, Suzy Salib, Caroline Stem, Kim Stone, Amy D. Sullivan, Noreen White
- 1994: Deborah D. Carr, Cherie DeRosia, Rohinton Emmanuel, Noah Hall, Timothy MacDonald, Soonae Park, Carlos de la Parra, Brent Plater, Shelley Price, Richard Wallace, Tracy Yoder
- 1995: Richard W. Aishton, James M. Birkelund, Micah M. Cheatham, C. Maureen Cunningham, Andrea I. Frank, Ajay Gupta, Allenn Han, Michael Landweber, Elizabeth J. Lombard, Alice Nabalamba, Diane O’Connell, Erin N. Perry, Lynelle Preston, Karen Rowe, Marisa Sifontes, Gwo-Wei Torng, Richard Tracy.
- 1996: Kazuhiro Arai, Hideo Kuramitsu, Clive Lipchin, Peter Murchie, Tamana Nishiguchi, Allain J. Rasolofoson, Julie C. Rodriguez, Hitomi Sasaki, Julie M. Smith, Rebecca Spector, Luejit Tinpanga.
- 1997: John Callewaert, Moushumi Chaudhuri, Shannon England, Seema Iyer, Daria Kim, Thammasack Manokham, Rosalyn Scaff, Jennifer Wegbreit.
- 1998: Marnie Boardman, Lewis Garvin, Asli Gocmen, Taufik Hanafi, Natalie Henry, Martha Masterton, Sujata Narayan, Mark Schmidt, Chandra Sivakumar, Jennifer Talbot, Michael Tiefel, Christina Welter, Moira Zellner.
- Scholarly Outreach:
 - Conference attendance: Regional Science Association, New Orleans. S. Arlinghaus, Drake, B. Arlinghaus, and J. Nystuen presented a special session. Attendance at other conferences by a variety of individuals, including (but not limited to those four): Association of American Geographers, American Mathematical Society, Mathematics Association of America.
 - Lectures given: University of Michigan, University of Chicago, University of Northern Iowa.
- Digital Activities
 - Creation of first website: www.csfnet.org, later to become the Foundation’s website archive. At the time of creation, domain names needed to have eight letters or fewer. The name csf.org was already taken, by the California Shakespeare Festival!
 - Scanning—need for archiving of materials. Comprehensive scanning program undertaken by Arlinghaus and Drake to scan CSF paper documents.
 - Friends of CSF database: Arlinghaus.

EDUCATION

- Honorary interns program: Arlinghaus. Interns were given a key to the house and were encouraged to use the facilities, the software, and to get to know CSF and its participants. There was an office for interns (shared by them) adjacent to the administrator’s office on the first floor. Mostly, however, they could be found talking to each other or to Sandy in the map lab in the middle of the first floor.
 - Interns: Dan Jacobs, Astrid Hillers, Richard Aishton, Rosalyn Scaff, Tamana Nishiguchi, Seema Iyer, Robin Saha, Marc Schlossberg, Richard Wallace, Ming-Hui Hsieh, Eun-Young Kim, Hyeyun Lee, Makoto Noguchi, Seung-Hoon Han, Peter Vincent, Luci Y. Kim, Allain Rasolofoson, Kerry Ard, Jennifer Horton, Emily Chi.
 - Many interns remain in contact.

- Creation of a new GIS/mapping library for the lab area. Arlinghaus sought books to review, primarily from the American Geographical Society of New York and then housed the review copies in the lab area for student use. When the house was sold, Drake gave the books back to her. There were two shelves of documents created from this approach.
- Use of the house for office hours for students from a variety of disciplines exposed these students, at least superficially, to people of CSF and to their various strengths.

SEEDS FROM THE 1990s AND HOW THEY HAVE GROWN...

Some of these activities continue, as is, down to the present (2013). Still others continue, but in a changed format. While yet others, of course, are complete.

AS IS

- Scholarly publication continues in its usual form with acknowledgement to CSF where appropriate. Most recent major publication, S. Arlinghaus and J. Kerski, *Spatial Mathematics: Theory and Practice through Mapping*, CRC Press / Taylor & Francis Publishing, July 2013.
- Solstice continues from 1990 to the present, as perhaps the world's first refereed online publications: <http://www.imagenet.org> , <http://deepblue.lib.umich.edu/handle/2027.42/58219>

CHANGED FORMAT

- **ChildInfo has become DevInfo, the current major thrust of CSF. It had its early growth in the 1990s.**
- Archiving of materials:
 - www.csfnat.org continues, but as the Foundation's own website archive. The University of Michigan, particularly the School of Natural Resources and Environment, has been particularly supportive of hosting the site. In addition, selections appear in other persistent archives of the University of Michigan Library system: Deep Blue, Hathi Trust, and elsewhere.
 - CSF Archived Website and Documents: <http://deepblue.lib.umich.edu/handle/2027.42/60637>
 - CSF Pakistan Missions: <http://deepblue.lib.umich.edu/handle/2027.42/60158>
 - CSF Syria Missions: <http://deepblue.lib.umich.edu/handle/2027.42/60159>
- Other projects continue to be developed. A small sample is given below; more is present in the linked files in a later bullet point about conference materials:
 - S. Arlinghaus (also a member of the MyHeart/YourHeart advisory board) continues to seek mapping grants in association with Dr. Kim Eagle and Dr. Thomas Crawford's project involving pacemaker reuse for demonstrably needy individuals in developing nations. Dr. Frank Arlinghaus of New Jersey has also been supportive, particularly in regard to offering important political contacts. In addition, Chris Dickey of the New York CSF Office has also been helpful in offering advice.
 - Chuck Drake continues with his innovative computer recycling project to benefit pre-collegiate education in a number of locales.
 - Jeff Kupperman, Gary Weissman and team continue with their clever interpretation of DevInfo in a "GameWorks" framework to benefit pre-collegiate education.
- Conference participation is now available in Ann Arbor. Beginning in 2003, and continuing for 10 years, an annual fall conference displayed the activities of CSF. CSF donated funds

for naming rights in the Dana Building in memory of Bill Drake. We hold our annual conference in this room (2024 Dana) as guests of the School of Natural Resources and Environment. <http://www.umich.edu/%7Ecsfound/CSFarchiveConferences.html>

- Friends of CSF continues, with supplementation of database coming from research for the 50th event. Added research from Roger Rayle and Bart Burkhalter.



Sandy Arlinghaus, John Nystuen, Rosina Bierbaum (then-Dean, School of Natural Resources and Environment) outside 2024 Dana at the time of the CSF naming-rights gift.





Some of the Friends of CSF.

- The primary project of DevInfo as well as a number of smaller projects (which might become larger) emerged and were presented in annual conferences to the Friends of CSF.

Tenth Annual Conference:

Saturday, November 17, 2012: 9:00 to 14:00, 2024 Dana, with luncheon and Forum in the Ford Commons

- Program of Events: flyer handed out and sent out in advance to Friends of CSF.
- Electronic materials from the presentations in the morning sessions (moderated by Sandra Arlinghaus); videos created by Roger Rayle.
 - John D. Nystuen, Welcome from CSF CEO
 - Marie Lynn Miranda, Dean SNRE, Welcome
 - Sandra L. Arlinghaus, CSF Archive.
 - Website Update
 - Honorary and Paid Interns Programme
 - Research Associates
 - Kris S. Oswalt, Overview of CSF 2012 Programme Activities. Chris Dickey, DevInfo Research and Innovations Programme. Jon Kapp, OpenEMIS.

- [Thomas Crawford](#), MyHeart/YourHeart, with [Sandra Arlinghaus](#) and John Nystuen.
- [Chuck Drake](#), Student Training and Refurbishment (STAR) Program Moves to Michigan.
- [Roger Rayle](#), Technology, Environment, and Community Systems. [Link](#) to clip of Dean Wilson relating how CSF got started and [link](#) to photos taken during the same visit. See the linked video page at the top to sample the wide variety of community projects Roger is involved in.
- Discussion Forum in the Ford Commons, moderated by Jon Kapp.

Ninth Annual Conference:

Saturday, October 22, 2011: 9:15 a.m. to 1:00 p.m., 2024 Dana, with luncheon in the Ford Commons, 1:00-2:00 p.m.

- [Program of Events](#): flyer handed out and sent out in advance to Friends of CSF.
- Electronic materials from the presentations; [videos](#) created by Roger Rayle.
 - John D. Nystuen, Welcome from CSF CEO
 - Sandra L. Arlinghaus, Welcome from CSF; [Honorary and Paid Interns Programme](#); [Research Associates](#)
 - [Kris S. Oswald and Jon F. Kapp](#), DevInfo Progress Update
 - Fred Goodman and Tim Goodman, Games: A Contemporary View
 - [Sandra L. Arlinghaus and William E. Arlinghaus](#), Perimeter Project Updates
 - Chuck Drake, Progress Update
 - [Bart Burkhalter](#), Planning for the CSF 50th Event
 - Friends of CSF, Plenary Discussions
- Closing remarks by John D. Nystuen

Eighth Annual Conference:

Saturday, October 23, 2010: 9:00 a.m. to 1:00 p.m., 2024 Dana, with luncheon in the Ford Commons, 1:00-2:00 p.m.

- [Program of Events](#): flyer handed out and sent out in advance to Friends of CSF.
- Electronic materials from the presentations, [videos](#) created by Roger Rayle:
 - [John D. Nystuen](#), Welcome from CSF CEO
 - [Bill Currie](#), Associate Dean for Academic Affairs, SNRE, Welcome from SNRE.
 - Sandra L. Arlinghaus, Welcome from CSF; [Honorary Interns Programme](#)
 - [Kris S. Oswald and Jon F. Kapp](#), *CSF--DevInfo: Update on Progress*
 - [Sandra L. Arlinghaus](#), *Connections: Scholarly Multi-Tasking in a Mobile Virtual World*
 - [William E. Arlinghaus](#), *The Perimeter Project: Beyond the Pilot Project--Golf Courses as 18 State "Nations."*
 - [Kris S. Oswald](#) on behalf of [Urban Jonsson](#), Ph.D.; *Development and the Human-Rights Based Approach to Programming.*
 - [Jeff Kupperman](#) and [Gary Weisserman](#), [DIGW](#).
 - [Roger Rayle](#), [Local Technological Scenes](#).
 - [Chuck Drake](#), [Comments](#).

- Open discussion and commentary, CSF Friends, Associates, Trustees, and Members. Photos: [01](#), [02](#), [03](#), [04](#), [05](#), [06](#), [07](#), [08](#).
- John D. Nystuen, Closing Remarks

Seventh Annual Conference:

Saturday, October 17, 2009: 9:30 a.m. to 1:15 p.m., 2024 Dana, with luncheon in the Ford Commons, 1:15-2:00 p.m.

- **Program of Events:** flyer handed out and sent out in advance to Friends of CSF.
- Electronic materials from the presentations:
 - [John D. Nystuen](#), Welcome from CSF CEO.
 - [J. David Allan](#), Associate Dean for Academic Affairs, SNRE, Welcome from SNRE.
 - [Kris S. Oswald](#), *CSF--DevInfo: Update on Progress*.
 - [Sandra L. Arlinghaus](#) and [William E. Arlinghaus](#), *The Perimeter Project: Cemetery Zoning Used in Fragile-Lands Protection*.
 - [Kerry Ard](#), *Environmental Toxicity in Wayne County Michigan*.
 - [Frederick L. Goodman](#), *The ICS-CSF Interface*.
 - [Jeff Kupperman](#), [Gary Weisserman](#), [Bethany Robertson](#), [Shawn Baglin](#), [Andrea Jenkins](#), *DevInfo GameWorks*. Links: [Presentation](#), [Overall website](#), [Prototype](#).
 - [John D. Nystuen](#), Closing remarks.
- Link to video files, made by [Roger Rayle](#):
 - Part I: [link](#)
 - Part II: [link](#)

Sixth Annual Conference:

Saturday, October 11, 2008: 9:30 a.m. to 1:00 p.m., 2024 Dana, with luncheon in Ford Commons, 1:00-2:30 p.m.

- **Program of Events:** flyer handed out and sent out in advance to Friends of CSF.
- Electronic materials from the presentations ([audio file](#) of the entire event):
 - [John D. Nystuen](#) Welcome from CSF CEO with added commentary from [Bart Burkhalter](#)
 - [Dan Brown](#) Welcome from SNRE Associate Dean
 - Sandra L. Arlinghaus: [interns](#), [archive](#)
 - [Kris S. Oswald](#), [presentation](#)
 - Sandra L. Arlinghaus, [E-book](#) on which presentation is based. Presentation with input from [Matthew Naud](#) ([link](#)), [Kris Oswald](#), [Roger Rayle](#) ([link](#)), and [Lars Schumann](#) ([link](#)) with added commentary from [William E. Arlinghaus](#) ([link](#)).
 - [Jeff Kupperman](#), [Gary Weisserman](#), [Bethany Robertson](#), and [Shawn Baglin](#)
 - Itzik Henig
 - [John D. Nystuen](#)

Fifth Annual Conference:

Saturday, October 6, 2007: 9:00 a.m. to 3:00 p.m., 2024 Dana, with luncheon in Ford Commons.

- Program of Events: flyer handed out and sent out in advance to Friends of CSF.
- Electronic materials from the presentations:
 - John D. Nystuen
 - Dan Brown
 - Kris S. Oswalt, presentation
 - Itzik Henig, Michael Fahy, Deborah Van Hoewyk
 - Sandra L. Arlinghaus, presentation
 - Roger Rayle, presentation

Fourth Annual Conference:

Saturday, October 21, 2006: 9:00 a.m. to Noon, 2024 Dana, with luncheon in Ford Commons until 1:00 p.m.

- Program of Events: flyer handed out and sent in advance to Friends of CSF.
- Candid photos: Drake Room; Ford Commons
- Electronic materials from the presentations:
 - John D. Nystuen--photo
 - Dan Brown--photo
 - Frederick L. Goodman--photo
 - Cathy Antonakos, presentation--photo
 - Sandra L. Arlinghaus, presentation--photo--links handed out at the event
 - Kris S. Oswald--presentation-- photo
- Poster display in Ford Commons of the Dana Building showing selected recent activities.

News from Chuck Drake following the conference**Third Annual Conference:**

Saturday, October 22, 2005: 1:00 p.m. to 5:00 p.m.

- Program of Events: flyer handed out and sent out in advance to Friends of CSF.
- Program of Events with linked materials.
- Electronic materials from the presentations:
 - John D. Nystuen
 - Kris S. Oswald
 - Sandra L. Arlinghaus
- Poster showing selected current activities: file sent to Friends of CSF--large format printout posted in the Dana Building.

Second Conference: Dedication of Room 2024 as the Drake Memorial Room, gift of CSF.

Monday, October 18, 2004: 3:00 p.m. to 5:00 p.m.

- [Program of Events](#)
- [Program of Events](#) with linked photos.
- Electronic materials from the presentations:
 - [Sandy Arlinghaus](#)
 - [Kris Oswalt](#)

First Conference: 40th Anniversary.

Saturday, October 11, 2003.

- [Program of Events](#)
 - Electronic materials from the presentations:
 - [Kris S. Oswalt](#)
 - [Sandra L. Arlinghaus](#)
 - Web page made available prior to the [40th Anniversary](#) celebration.
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- Research Associates continue.
- The honorary intern program continues.
 - Now it is focused, after the sale of the house on Hill Street, more on publication as a form of sharing of information.
 - Contact and occasional visits from former interns help to perpetuate the enthusiastic spirit of this program, as does recruitment of an occasional candidate.

COMPLETE

The funded projects from the 1990s are complete. The ChildInfo project developed into the DevInfo project. Other projects from the 1990s that have endured are ones involving publication (name recognition), numerous smaller projects, and education. In brief, all aspects of the programme of the 1990s has endured and has transformed in various ways to adjust to changing technological (and other) times.