

Gerardo Chowell
Assistant Professor
School of Human Evolution and Social Change
Arizona State University

School of Human Evolution and Social
Change
Arizona State University
Box 872402
Tempe, Arizona 85287

Email: gchowell@asu.edu
Tel: (480) 965-4730
Fax: (480)-965-7671
website: <http://www.public.asu.edu/~gchowel>

EDUCATION

Ph. D. in Biometry

Biological Statistics and Computational Biology, Cornell University,
Ithaca, New York 14853
Conferral: January 19, 2005.

Engineering in Telematics

College of Telematics, Universidad de Colima, Mexico
August 1997 - June 2001

International Programs:

Exchange student at the British Columbia Institute of Technology

British Columbia, Canada
Fall of 1998

The Spanish Agency of International Cooperation: Intercampus Program

Universidad de Cadiz, Spain
February-March, 2001

EMPLOYMENT HISTORY

Assistant Professor	School of Human Evolution and Social Change, Arizona State University	August 2007 – present
Postdoctoral Fellow	Center for Nonlinear Studies/Mathematical Modeling and Analysis Group, Los Alamos National Laboratory	2007- present
Director's Funded Postdoctoral Fellow	Center for Nonlinear Studies/Mathematical Modeling and Analysis Group, Los Alamos National	2005-2006

Laboratory

HONORS

Recognized by Chicano/Latino Faculty and Staff Association, Arizona State University

Selected by financial magazine 'Poder y Negocios' as one of 100 professors who were born in Mexico and are now teaching and making waves in the United States

Tempe, Arizona

November 1st, 2007

Director's Funded Postdoctoral Fellowship (2005-2006)

Los Alamos National Laboratory, Los Alamos, New Mexico.

National Prize for Youth 2002 (Premio Nacional de la Juventud 2002) for academic merits

Instituto Mexicano de la Juventud, Government of Mexico, DF, November 24, 2003. Award includes Diploma signed by Mexican President Vicente Fox, Gold Medal, and 110,000 Mexican pesos (more than \$9,800 dollars)

(see addendum)

National Prize for Youth 2000 (honorific mention for academic merits)

Instituto Mexicano de la Juventud, Government of Mexico, Mexico, DF, January 2002

State Prize for Youth 2000 (Premio Estatal de la Juventud 2000) for academic merits

Instituto Mexicano de la Juventud, Colima, Mexico, December 2001

"Premio Peña Colorada" AWARD for academic merits

Consortio Minero Benito Juarez, Colima, Col. Mexico, December 2001

"Arq. Rodolfo Chavez Carrillo" AWARD for academic merits

Bachillerato Tecnico No.1, Universidad de Colima, Mexico, November 1997

Award includes Diploma and Gold Medal.

TELMEX Scholarship, TELMEX Foundation, September 1999 June 2001

Academic Excellence Recognition, Universidad de Colima, 1997-2000

Creativity Contest, 3rd place, College of Telematics, Universidad de Colima, 1998

National Contest of Informatics (Mexico), 4th place, Instituto Tecnológico Autónomo de México, July 1997.

Science Contests at the Universidad de Colima, Mexico:

Differential Calculus state contest, 1st place, May 1997

Analytic Geometry state contest, 1st place, December 1996

Trigonometry state contest, 2nd place, June 1996

Organic Chemistry state contest, 2nd place, December 1996

Inorganic Chemistry state contest, 1st place, June 1996

RESEARCH INTERESTS

Mathematical modeling of the spread of emerging and re-emerging infectious diseases, model validation, social networks, statistical methods in medicine, statistical applications to epidemiology, and agent-based modeling.

Publications

G. Chowell, C.A. Torre, C. Munyaco-Escate, L. Suárez -Ognio, R. López-Cruz, J.M. Hyman, C. Castillo-Chavez. Spatial and temporal dynamics of dengue fever in Peru: 1994-2006.

Epidemiology and Infection (to appear 2008).

G. Chowell, H. Nishiura. Quantifying the transmission potential of pandemic influenza. **Physics of Life Reviews** (to appear, 2008)

G. Chowell, L.M.A. Bettencourt, N. Johnson, W.J. Alonso, C. Viboud. The 1918-1919 influenza pandemic in England and Wales: Spatial patterns in transmissibility and mortality impact. **Proc. R. Soc. B** 275, 501-509 (2008)

G. Chowell, L.M.A. Bettencourt, N.P.A.S. Johnson, W.J. Alonso, C. Viboud. The 1918-19 influenza pandemic in England and Wales: Spatial patterns of transmissibility and mortality impact. **Proc. Roy. Soc. B** (to appear, 2008).

T.L. Burr and **G. Chowell**. Signatures of non-homogeneous mixing in disease outbreaks. **Math. Comp. Model.** (to appear, 2007)

H. Nishiura and **G. Chowell**. Household and community transmission of the Asian influenza A (H2N2) and influenza B viruses in 1957 and 1961. **Southeast Asian J. Trop. Med. Pub. Health** 38(6), 1075-1083 (2007).

A. B. Gumel, M. Nuno, **G. Chowell**. Mathematical assessment of Canada's pandemic influenza preparedness plan. **Can. J. Inf. Dis. & Med. Microb.** (in press).

G. Chowell, M. Miller, C. Viboud. Seasonal influenza in the United States, France, and Australia: Transmission and Prospects for control. **Epidemiology and Infection** 2007 Jul 18;;1-13 [Epub ahead of print]

M. Chaffer, A. L. Rivas, D. Elad, O. Koren , S. Garazi, **G. Chowell**, S. J. Schwager. Receiver operating characteristic (ROC)-based assessment of a serological test used to detect Johne's Disease in Israeli dairy herds. **Can. J. Vet. Res.** 72:18-26 (2008).

G. Chowell, C. E. Ammon, N. W. Hengartner, J. M. Hyman. Estimating the reproduction number from the initial phase of the of the Spanish flu pandemic waves in Geneva, Switzerland. **Math. Biosci. Eng.** 4, 457-470 (2007).

L.M.A. Bettencourt, R.M. Ribeiro, **G. Chowell**, T. Lant, C. Castillo-Chavez. Towards real time epidemiology: data assimilation, modeling and anomaly detection of health surveillance data streams. **Special Volume on Biosurveillance Systems. Lecture Notes in Computer Science. Springer Verlag** (to appear, 2007).

R. I. Rodríguez-Vivas, A. L Rivas, **G. Chowell**, H. Fragoso, R. Rosario, Z. Garcia, S. D Smith, J. J. Williams, S. J. Schwager. Spatial distribution of acaricide profiles (*Boophilus microplus* strains susceptible or resistant to acaricides) in southeastern Mexico. **Veterinary Parasitology** 146(1-2):158-69 (2007).

G. Chowell, P. Diaz-Duenas, J. C. Miller, A. Alcazar-Velazco, J.M. Hyman, P.W. Fenimore, C. Castillo-Chavez. Estimation of the reproduction number of dengue fever from spatial epidemic data. **Math. Biosci.** 208:571-89 (2007).

G. Chowell, H. Nishiura, L.M.A. Bettencourt. Comparative estimation of the reproduction number for pandemic influenza from daily case notification data. **J. Royal Society Interface** 4, 155-166 (2007).

M. Nuno, **G. Chowell**, X. Wang, C. Castillo-Chavez. On the role of cross-immunity and survival of less-fit flu strains. **Theor. Pop. Biol.** 71 20-29 (2007).

M. Nuno, **G. Chowell**, A. Gumel. Assessing Basic Control Measures, Antivirals and Vaccine in Curtailing Pandemic Influenza: Scenarios for the US, UK, and the Netherlands. **J. Royal Society Interface** (available online, 2006).

T. L. Burr, **G. Chowell**. Observation and model error effects on parameter estimates in the susceptible-infected-recovered epidemiological model. **Far East. J. Theor. Stat.** 19(2), 163-183 (2006)

G. Chowell, F. Sanchez, Climate-based descriptive models of dengue fever: The 2002 epidemic in Colima, Mexico. **J. Env. Health** 68 (10) Jun (2006).

G. Chowell, C. E. Ammon, N. W. Hengartner, J. M. Hyman. Estimation of the reproductive number of the Spanish Flu epidemic in Geneva, Switzerland. Proceedings of the Second European Influenza Conference (St. Julians, Malta, September, 2005). **Vaccine** 24, 6747-6750 (2006)

G. Chowell, P. Diaz-Duenas, R. Bustos-Saldana, A. Aleman-Mireles, and V. Fet. Epidemiological and Clinical Characteristics of Scorpionism in Colima, Mexico (2000-2001). **Toxicon** 47(7), 753-758 (2006).

G. Chowell, A. Cintron-Arias, S. Del Valle, F. Sanchez, B. Song, J. M. Hyman, H. W. Hethcote, C. Castillo-Chavez. Mathematical applications associated with the deliberate release of infectious agents. In: Modeling The Dynamics of Human Diseases: Emerging Paradigms and Challenges. **AMS Cotemporary Mathematics Series** Vol. 410. pp. 51-71. Gumel A. (Chief Editor), Castillo-Chavez, C., Clemence, D.P. and R.E. Mickens (2006).

G. Chowell, C. E. Ammon, N. W. Hengartner, J. M. Hyman. Transmission dynamics of the great influenza pandemic of 1918 in Geneva, Switzerland: Assessing the effects of hypothetical interventions. **J. Theor. Biol.** 241(2), 193-204 (2006).

L. Rivas, B. Kunsberg, **G. Chowell**, S. D. Smith, J. M. Hyman, S. J. Schwager. Human-mediated foot-and-mouth disease epidemic dispersal: disease and vector clusters. **J. Vet. Med.** B 53, 1-10 (2006).

G. Chowell, A. L. Rivas, N. W. Hengartner, J. M. Hyman, C. Castillo-Chavez. Critical response

to post-outbreak vaccination against foot-and-mouth disease. Modeling The Dynamics of Human Diseases: Emerging Paradigms and Challenges. **AMS Cotemporary Mathematics Series** Vol. 410, pp. 73-87. Gumel A. (Chief Editor), Castillo-Chavez, C., Clemence, D.P. and R.E. Mickens (2006).

G. Chowell, E. Shim, F. Brauer, P. Diaz-Duenas, J. M. Hyman, C. Castillo-Chavez. Modeling the transmission dynamics of Acute Hemorrhagic Conjunctivitis: Application to the 2003 outbreak in Mexico. **Stat. Med.** 25(11), 1840-1857 (2006).

G. Chowell, A. L. Rivas, N. W. Hengartner, J. M. Hyman, C. Castillo-Chavez. The role of spatial mixing in the spread of foot-and-mouth disease. **Prev. Vet. Med.** 73, 297-314 (2006).

G. Chowell, A. L. Rivas, S. D. Smith, J. M. Hyman. Identification of case clusters and counties of greater infective connectivity in the 2001 Uruguayan foot-and-mouth disease epidemic. **Am. J. Vet. Res.** 67(1), 1-12 (2006).

G. Chowell, J. M. Hyman, P. Diaz-Duenas, N. W. Hengartner. Predicting scorpion sting incidence in an endemic region using climatological variables. **Int. J. Env. Health Res.** 15(6), 425-435 (2005).

G. Chowell, P. Diaz-Duenas, and D. Chowell. The dynamics of pulmonary tuberculosis in Colima, Mexico (1999-2002). **Scand. J. Infect. Dis.** 37(11), 858-862 (2005).

J. Gjorgjieva, K. Smith, **G. Chowell**, F. Sanchez, J. Snyder, and C. Castillo-Chavez. The role of vaccination in the control of SARS. **Math. Biosci. Eng.** 2(4), 753-769 (2005)

G. Chowell, C. Castillo-Chavez, P. Diaz-Duenas. Characterization of an outbreak of Acute Hemorrhagic Conjunctivitis. **Digital J. Ophthalm.** 11/1 (2005).

P. Diaz-Duenas, **G. Chowell**, G. Ceja, T. C. D'Auria, R. C. Lloyd, C. Castillo-Chavez. Pediatric electrocardiograph abnormalities following *Centruroides limpidus tecomanus* scorpion envenomation. **Toxicon** 45(1), 27-31 (2005)

G. Chowell, N. W. Hengartner, C. Castillo-Chavez, P. W. Fenimore, and J. M. Hyman. The reproductive number of ebola and the effects of public health measures: The cases of Congo and Uganda. **J. Theor. Biol.** 229(1), 119-126 (2004)

G. Chowell, C. Castillo-Chavez, P.W. Fenimore, C. Kribs-Zaleta, L. Arriola, J.M. Hyman. Model parameters and outbreak control for SARS. **Emerg. Inf. Dis.** 10 (7) (2004).

G. Chowell, J. M. Hyman, S. Eubank, C. Castillo-Chavez. Scaling laws for the movement of people between locations in a large city. **Phys. Rev. E** 68 (2003).

G. Chowell and C. Castillo-Chavez. Worst-Case scenarios and epidemics. Mathematical and Modeling Approaches to Homeland Security (2003), T. Banks, C. Castillo-Chavez Eds. Frontiers in Applied Mathematics Vol. 28 (SIAM, Philadelphia, 2003).

G. Chowell, P.W. Fenimore, M.A. Castillo-Garsow, C. Castillo-Chavez. SARS outbreaks in Ontario, Hong Kong and Singapore: the role of diagnosis and isolation as a control mechanism. **J. Theor. Biol.** 24, 1-8 (2003).

PhD Thesis: Mathematical Models for Emergent and Re-Emergent Infectious Diseases: Assessing the Effects of Public Health Interventions. Cornell University, Adviser: Carlos Castillo-Chavez.

Technical reports:

Deterministic and Stochastic Reaction-diffusion Models in a Ring

Technical report for the Mathematical and Theoretical Biology Institute (MTBI), Cornell University, Ithaca, New York, Summer 2000.

Disease Dynamics on Small-world and other Networks

Technical report for the Mathematical and Theoretical Biology Institute (MTBI), Cornell University, Ithaca, New York, Summer 2001

GRANT SUPPORT

- World Health Organization, January-June of 2008, Initiative for Vaccine Research, \$52K

RESEARCH EXPERIENCE

Mathematical Modeling and Analysis/Center for Nonlinear Studies

Los Alamos National Laboratory

Postdoctoral Fellow

March 2007 - present

Mathematical Modeling and Analysis/Center for Nonlinear Studies

Los Alamos National Laboratory

Director's Funded Postdoctoral Fellow

March 2005 – March 2006

Mathematical Modeling and Analysis

Los Alamos National Laboratory

Graduate Research Assistant

Los Alamos, New Mexico

August 2004 – December 2004

Mathematical and Theoretical Biology Institute

Arizona State University/Los Alamos National Laboratory

Graduate Research Assistant

Los Alamos, New Mexico

June 2004 - August 2004

Center for Nonlinear Studies (CNLS)

Los Alamos National Laboratories

Staff Research Employee

Los Alamos, New Mexico

January 2003 – January 2004

Theoretical Division (T-7 Group)

Los Alamos National Laboratory

Graduate Research Assistant

Los Alamos, New Mexico

Summer of 2002

The Spanish Agency of International Cooperation: Intercampus Program

Escuela Superior de Ingenieria, Universidad de Cadiz, Spain

February 2001- March 2001

Mathematical and Theoretical Biology Institute

Cornell University, Ithaca, New York, Summers of 2000 and 2001

EDITORIAL BOARDS

SIAM Undergraduate Research Online (- 2009)

COMMITTEES

Oct 19-20, 2007	National Research Council	Committee on Technical Input on the Supplemental Final Environmental Impact Report for the Biosquare Phase II Project.
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STUDENT MENTORING

Summer of 2006

Sarah Hews (Mathematics & Statistics department, Arizona State University): Summer 2006
Project: Clinical and Climatological Analysis of the 2002 Dengue Fever Epidemic in Colima,
Mexico.

Summer of 2005

Benjamin Kunsberg (Mathematics department, The Johns Hopkins University): Summer 2005
Project: Human-mediated foot-and-mouth disease epidemic dispersal (published in J. Vet. Med.
B, 2005)

Summer of 2004

Julijana Gjorgjieva (Mathematics department, Harvey Mudd College): Summer of 2004
Kelly Smith (Mathematics department, Clarion University of Pennsylvania)
Jessica Snyder (College of Sciences, Georgia Institute of Technology)
Project: The role of vaccination in the control of SARS (published in Math. Biosci. Eng., 2005)

ORAL AND POSTER PRESENTATIONS

Invited talk: The 1918-19 influenza pandemic in England and Wales: Patterns of transmissibility and mortality impact

Special Session on Recent Advances in Mathematical Biology, Ecology, and Epidemiology
American Mathematical Society Annual Meeting
San Diego, California
January 7, 2008

Colloquium: The 1918-19 influenza pandemic in England and Wales: Patterns of transmissibility and mortality impact

Department of Mathematics
University of Florida
Gainesville, Florida
December 3, 2007

Invited talk: Patterns of transmissibility and mortality impact: The case of foot-and-mouth disease and influenza

Austrian Academy of Sciences & Institute of Advances Studies
Vienna, Austria
November 19-20

Invited talk: Transmission and control of influenza epidemics and pandemics

Epidemiology Session-Annual meeting of the Society of Mathematical Biology
San Jose, California
August 1, 2007

The role of spatial heterogeneity in the spread of infectious diseases

Conference on Mathematical and Computational Population dynamics
Campinas, Brazil
July 17, 2007

Understanding the spread of infectious diseases: Linking models to data

Los Alamos Summer School
Los Alamos & UNM
Los Alamos, NM
June 25, 2007

Invited talk: Transmissibility of historical pandemics and epidemics of influenza: prospects for control

Fogarty International Center
National Institutes of Health
Bethesda, MD
June 05, 2007

Colloquium: Patterns of transmissibility and mortality impact during the 1918-19 influenza pandemic

School of Human Evolution and Social Change
Arizona State University
Tempe, AZ
May 07, 2007

Colloquium: Transmission dynamics of infectious diseases in space and time

Mathematics and Statistics Department
Arizona State University
Tempe, AZ
April 20, 2007

Invited Talk: Quantifying the Transmissibility of Seasonal and Pandemic Influenza

Workshop on the Mathematics of Global Public Health
Arizona State University
Tempe, AZ
March 10, 2007

Invited Talk: Modeling and Estimation in the Transmission Dynamics of Infectious Diseases

Ecosystem Models Working Group
Santa Fe Institute
Santa Fe, New Mexico
February 13, 2007

Invited Talk: Quantifying the Transmissibility of Seasonal and Pandemic Influenza

Arizona Days Meeting
Tucson, Arizona
February 08, 2007

Invited Talk: Comparative estimation of the reproduction number for pandemic influenza

Recent advances in Mathematical Biology, Epidemiology and Ecology
AMS Annual Meeting
New Orleans
January 08, 2007

Invited Talk: Transmission and control of seasonal and pandemic influenza

Blackwell-Tapia Conference organized by the Institute of Mathematics and its Applications
Minneapolis, Minnesota
November 04, 2006

Talk: Learning from the Spanish Flu Pandemic in Geneva, Switzerland

SACNAS Annual Meeting. Session of Multidisciplinary Approaches to Biological and Computational Systems Research
Tampa, Florida
October 28, 2006

Invited Talk: Transmission and Control of Seasonal and Pandemic Influenza

DIMACS Workshop on models of co-evolution of hosts and pathogens
Piscataway, New Jersey
October 10, 2006

Invited Talk: SARS outbreaks in Ontario, Hong Kong and Singapore: The role of rapid diagnosis and effective isolation as control mechanisms

DIMACS Workshop on facing the challenges of infectious diseases in Africa: The role of mathematical modeling
Johannesburg, South Africa

September 26, 2006

Poster: Transmission dynamics of the great influenza pandemic of 1918 in Geneva, Switzerland: Assessing the effects of hypothetical interventions.

DIMACS Workshop on facing the challenges of infectious diseases in Africa: The role of mathematical modeling

Johannesburg, South Africa

September 26, 2006

Poster: The role of spatial mixing in the spread of foot-and-mouth disease: The 2001 epidemic in Uruguay

DIMACS Workshop on facing the challenges of infectious diseases in Africa: The role of mathematical modeling

Johannesburg, South Africa

September 26, 2006

Talk: The Reproduction Number of the Spanish Flu Pandemic in Geneva, Switzerland

Session: Recent Advances in Mathematical Epidemiology

SMB-SIAM Conference on the Life Sciences

Durham, North Carolina

August 01, 2006

Invited Talk: Transmission and Control of Seasonal and Pandemic Influenza

Summer Teacher Institute, Super Computing Challenge

Santa Fe Indian School

Santa Fe, New Mexico

July 21, 2006

Invited Talk: Estimating the reproduction number of the Spanish Flu pandemic in Geneva, Switzerland

Session: Applications of dynamical systems in biology

SIAM Annual Meeting

July 11, 2006

Boston, MA

Talk: Generalized Interventions Against Pandemic Influenza

12th International Congress on Infectious Diseases

Influenza and Vaccines Session

Lisbon, Portugal

June 17, 2006

Talk: Transmission and Control of Seasonal and Pandemic Influenza

Postdoc Seminar

Center for Nonlinear Studies, Los Alamos National Laboratory

Los Alamos, NM

May 11, 2006

Invited talk: Transmission and Control of Seasonal and Pandemic Influenza

Seminar of the Mathematics and Statistics Department

Arizona State University

Tempe, AZ

April 28, 2006.

Poster: Estimation of the reproductive number of the Spanish Flu epidemic in Geneva, Switzerland.

International Conference on Emerging Infectious Diseases
Atlanta, Georgia
March 21, 2006.

Invited Talk: Estimation of the reproductive number of the Spanish Flu epidemic in Geneva, Switzerland.

Session of Ecology and Epidemiology
International Congress on the Applications of Mathematics
Universidad de Chile
Santiago, Chile
March 16, 2006

Invited Talk: Applications of Mathematics in Public Health: Analyzing the 1918 Influenza Pandemic in Geneva, Switzerland.

Universidad de Colima
Colima, Colima, Mexico
March 10, 2006

Invited Talk: Transmissibility of the 1918 influenza pandemic and the effect of hypothetical interventions

Avian Influenza Information Exchange
MSL Auditorium
Los Alamos National Laboratory
Los Alamos, New Mexico
February 22, 2005.

Talk: Containing the next influenza pandemic: Lessons and knowledge from past epidemics.

T-10, Biological Sciences group seminar
Los Alamos National Laboratory
Los Alamos, New Mexico
December 07, 2005.

Poster: Transmission dynamics of the great influenza pandemic of 1918 in Geneva, Switzerland: Assessing the effects of hypothetical interventions.

Second European Influenza Conference
St.-Julians, Malta
September 10-14, 2005

Discussion leader: Parameter estimation, uncertainty and sensitivity in epidemic modeling

Mathematical Epidemiology Workshop (PIMS)
Banff, Alberta, Canada
August 25, 2005

Talk: The 2001 Uruguayan Foot-and-Mouth Disease Epidemic: Modeling and Testing of Data-driven Hypothesis on Spatial Connectivity

Modeling the dynamics of human diseases: Emerging paradigms & Challenges

Snowbird Resort, Snowbird, UT
July 17, 2005

Talk: Modeling the 2001 Foot-and-Mouth Epidemic in Uruguay using Geo-referenced data
2005 SIAM Annual Meeting,
New Orleans, LA.
July 11-15, 2005

Poster: Spatial Patterns of Infection: Modeling the 2001 Foot-and-Mouth Epidemic in Uruguay using Geo-referenced data
1st Young Researchers Workshop
Mathematical Biology Institute (MBI)
Ohio State University
Columbus, Ohio
April 01, 2005

Invited talk: The Effects of Public Health Measures on the Transmission of SARS
From Cholera to Smallpox and Beyond: Mathematical Modeling for 21st Century Public Health Practice Conference
Riverside County Department of Public Health
Palm Springs, CA
March 09, 2005

Invited Talk: Mathematics Department Seminar
Invited talk: Mathematical models for Emergent and Re-Emergent Infectious Diseases: The cases of SARS and Foot-and-Mouth Disease
Department of Mathematics and Statistics
University of New Mexico, Albuquerque, NM
October 12, 2004

Invited Talk: Mathematical Biology Seminar
Transmission Dynamics of SARS and the Effects of Public Health Interventions
Department of Mathematics, Arizona State University, Arizona.
March 22, 2004

Talk: 2003 SACNAS Conference
SARS outbreaks in Ontario, Hong Kong, and Singapore: the role of diagnosis and isolation as control mechanisms
2-4 October, 2003
Albuquerque, NM

Poster: Conference on Growing Networks and Graphs in Statistical Physics, Finance, Biology and Social Systems
(Travel Grant from Graduate School at CU)
University of Rome La Sapienza
Poster Presentation (with Zoltan Torockzkai): Halting Epidemics in Proximity Networks
September 1-5, 2003
Rome, Italy

Poster: Networks: Structure, Dynamics and Function
Center for Nonlinear Studies, Los Alamos National Laboratory

Poster presentation (with Zoltan Torockzkai): Halting Epidemics in Proximity Networks
May 12-16, 2003
Los Alamos, New Mexico.

Talk: SACNAS (Society for the Advancement of Chicanos and Native Americans in Science)

(Travel Grant from Graduate School at CU)

Oral Presentation: Network Analysis Approach to Epidemics.

Anaheim, California.

September 2002

Talk: SACNAS (Society for the Advancement of Chicanos and Native Americans in Science)

Disease Dynamics on Small-World and other Networks.

Phoenix, Arizona

September 2001

Poster: International Symposium at the UMET

Disease Dynamics on Small-World and other Networks,

San Juan, Puerto Rico

October 2001

Poster: AMS (American Mathematical Society)

(Travel Grant from Graduate School at CU)

Disease Dynamics on Small-World and other Networks

San Diego, California

January 2002

Poster: SACNAS (Society for the Advancement of Chicanos and Native Americans in Science)

Deterministic and Stochastic Reaction Diffusion models in a Ring

Atlanta, Georgia

October 2000

Poster: AMS (American Mathematical Society)

Deterministic and Stochastic Reaction Diffusion models in a Ring

New Orleans, LA

January 2001

CONFERENCES AND WORKSHOPS CO-ORGANIZED

**Session: Mathematical and Statistical Applications in Epidemiology and Public Health
SIAM Annual Meeting**

Co-organized with: Miriam Nuno, Sara Del Valle and Carlos Castillo-Chavez

July 07 - July 14, 2006

Boston, MA

Computational and Mathematical Approaches to Homeland Security, Public Health Policy and Control: Challenges Posed by Emerging and Reemerging Diseases

Co-organized with: Miriam Nuno, Sara Del Valle, Ariel Cintron-Arias, Fabio Sanchez, and Carlos Castillo-Chavez

Los Alamos National Laboratory

Conference Organizer

June 30 - July 3, 2003

Los Alamos, New Mexico

Reviewer for: American Journal of Epidemiology, Journal of Theoretical Biology, Mathematical Biosciences, Bulletin of Mathematical Biology, Mathematical Biosciences and Engineering, Mathematical and Computer Modeling, Statistics in Medicine, IEEE Transactions on Biomedical Engineering, Theoretical Biology and Medicine, Dengue Bulletin, PLoS Computational Biology, BMC Public Health, BMC Infectious Diseases, Proceedings of the Royal Society: Biological Sciences, Proceedings of the Royal Society: Interface, Nonlinear Analysis Series B: Real World Applications.

MEMBER OF PROFESSIONAL ORGANIZATIONS

- Society of Mathematical Biology

- American Mathematical Society

On the Mexican National Prize for Youth

The Mexican National Prize for Youth is awarded by the Mexican Institute of Youth or Instituto Mexicano de la Juventud. Established by the Mexican legislature in 1998, the Institute of Youth is a federal agency that promotes participation by young people aged 12 to 29 in improving the social, cultural and living standards for the Mexican nation and its 34 million youth.

The prize is presented by Mexican President at the presidential residence of Los Pinos in Mexico City. The award recognizes cumulative academic activities, including research, publications, invited talks, awards and community service. The award includes a diploma, a gold medal and 110,000 Mexican pesos (more than \$9,800). More information at:

http://www.sep.gob.mx/wb2/sep/sep_Premio_Nacional_de_la_Juventud

REFERENCES

Carlos Castillo-Chavez
Department of Mathematics & Statistics
Arizona State University,
PO BOX # 871804
Tempe, AZ 85287 - 1804
Tel 480.965.2115
Fax 480.727.7343
Email: chavez@math.asu.edu

James Mac Hyman
Mathematical Modeling and Analysis, T-7
Mail Stop B284
Los Alamos National Laboratory
Phone: +1.505.667-6294
Fax: +1.505.665.5757
Email: hyman@lanl.gov

Nicolas Hengartner
D-1 Statistical Science Group
Phone: +1 +505 667-7647
Email: nickh@lanl.gov