
Profile

Question applies to multiple boards

Whenever possible, submit your application prior to the scheduled meeting of the affected advisory board so that they can consider all applications prior to making a recommendation to Council.

Public Records Statement

I acknowledge that all information submitted in this application becomes a public record and will be searchable online. The Town is not able to remove information from the public record once it has been posted.

I Agree

tbendor@gmail.com

Email Address

Todd

First Name

Middle Initial

Bendor

Last Name

904 Coker Dr.

Street Address

Suite or Apt

Chapel Hill

City

NC

State

27517

Postal Code

Mobile: (217) 417-6355

Primary Phone

Home: (919) 843-5990

Alternate Phone

Question applies to multiple boards

Residency within the Town limits is required for membership on most Council advisory bodies. Memberships of some committees and task forces may be composed of up to forty percent of non-Town residents.

What district do you live in? *

Chapel Hill Town limits (Purple)

[Please consult the town maps HERE if you are unsure.](#)

If you are a Chapel Hill Resident, How long have you lived here?

Greater than 10 years

Question applies to multiple boards

The Council encourages you to visit a meeting of the group that you are interested in serving on. Please choose no more than two groups from the list below to which you would like to apply.

Which Boards would you like to apply for?

Orange Water and Sewer Authority Board of Directors: Eligible

Question applies to Stormwater Management Utility Advisory Board

Select a Seat Category for the Stormwater Management Utility Advisory Board *

Owners of Single-Family Residential Property within Chapel Hill

Which Board is your First Choice? *

Stormwater Management Utility Advisory Board

How did you find out about this opportunity? (select all that apply)

Email

If you chose "Other" from the advertising opportunity listed above, please specify:

Interests & Experiences

What perspective(s) do you bring to the board(s), commission(s), committee(s) or task force(s) to which you are applying?

I have been a UNC professor for 13 years, and my research and teaching focus on environmental planning, specifically on ecological restoration, environmental markets, urban flooding, and urban climate adaptation. I have also a Chapel Hill/Carrboro resident since 2007. When I moved here, this region was in the midst of the 2nd drought of record (behind 2001), which definitely gave me an appreciation for how the infrastructure is managed

Please provide a brief summary of any other relevant qualifications (skills, abilities, interests and/or experience) you bring.

Stormwater Advisory Board: I have worked with CH stormwater employees for years with regards to research and teaching. I have performed many studies of stormwater issues in the Triangle, including work on stormwater utilities. My skills span from planning, GIS, analysis, grant writing, research design, OWASA: I have worked with the OWASA sustainability and planning staff (Mary Tiger, Pat Davis, Ed Holland) for many years, who have taken part in a course I teach on impact assessment. I have a strong interest in water infrastructure and have significant experience with environmental and infrastructure planning.

Question applies to multiple boards

[bendor_cv_7-23-](#)

[20_ForCHApplication.pdf](#)

You may upload a supporting document (e.g., CV or resume). **Please be advised that any information submitted becomes a public record and may be searchable online.**

Demographics

The Town Council seeks to attract persons from diverse backgrounds and believes that childcare and transportation is a potential barrier for qualified and interested applicants. See the [Childcare and Transportation Assistance pilot](#) for further details. In order to consider this application and provide some balance to the various boards, this personal information is required:

Ethnicity *

Caucasian/Non-Hispanic

Gender *

Male

If other, please describe:

Please select your age from the following list. *

35-54

UNC Professor

Occupation

Are you a caregiver for or identify with a disability?

Yes No

Have you participated in the Peoples Academy?

Yes No

Are you a Town of Chapel Hill employee?

Yes No

Ethics Statement

ETHICS GUIDELINES FOR TOWN ADVISORY BOARDS AND COMMISSIONS

Members of advisory boards and commissions shall not discuss, advocate, or vote on any matter in which they have a conflict of interest or an interest which reasonably might appear to be in conflict with the concept of fairness in dealing with public business. A conflict of interest or a potential conflict occurs if a member has a separate, private, or monetary interest, either direct or indirect, in any issue or transaction under consideration. In addition, members of the Historic District Commission and Board of Adjustment, when these boards are hearing cases, serve as quasi-judicial bodies. Pursuant to State Statute 106A-388(e)(2), members of these boards “shall not participate in or vote on any quasi-judicial matter in a manner that would violate affected persons’ constitutional rights to an impartial decision maker. Impermissible violations of due process include, but are not limited to, a member having a fixed opinion prior to hearing the matter that is not susceptible to change, undisclosed ex parte communications, a close familial, business, or other associational relationship with an affected person, or a financial interest in the outcome of the matter.” Any member who violates these Ethics Guidelines may be subject to removal from the board or commission. If the advisory board or commission member believes he/she has a conflict of interest then that member should ask the advisory board or commission to be recused from voting. The advisory board or commission should then vote on the question on whether or not to excuse the member making the request. In cases where the individual member or the advisory board or commission establishes a conflict of interest, then the advisory board or commission member shall remove themselves from the voting area. Any advisory board or commission member may seek the counsel of the Town Attorney on questions regarding the interpretation of these ethics guidelines or other conflict of interest matters. The interpretation may include a recommendation on whether or not the advisory board or commission member should excuse himself/herself from voting. The advisory board or commission member may request the Town Attorney respond in writing.

I Agree *

Question applies to multiple boards

Applications will be kept on file from July 1st to June 30th of the same fiscal year. Please reapply each fiscal year if you are still interested in serving on an Advisory Board, Commission, Committee or Task Force and have not yet been appointed.

Todd Bendor

CONTACT INFORMATION

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University of North Carolina at Chapel Hill
New East Building, CB #3140
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Odum Institute for Research in Social Science
University of North Carolina at Chapel Hill
Davis Library (Suite 231B), Campus Box #3355
Chapel Hill, NC 27599-3140
Phone: 919.843.5990

Professional Website: <http://todd.bendor.org>

Departmental Website: <https://planning.unc.edu/faculty/bendor/>

EDUCATION

Ph.D. in Regional Planning

May 2007

University of Illinois at Urbana-Champaign (UIUC), Champaign, IL

- Dissertation topic: *Redistribution Effects of Wetland Mitigation over Space and Time.*
- Committee: Varkki Pallathucheril (Chair), Bruce Hannon, Nick Brozovic, and David Kovacic.
- Earned Center for Teaching Excellence 'Graduate Teaching Certificate.'

2004 Santa Fe Institute Complex Systems Summer School

July 2004

- Selected to enroll in course and project work at highly selective complexity workshop.
- Created agent-based model of land-use change and climate interaction.

M.S. in Environmental Science

August 2003

Washington State University (WSU), Pullman, WA

- Thesis topic: *Simulating Scrapage and Feebate Programs for Reduced Automobile Emissions.*
- Advisor: Andrew Ford.

B.S. in System Dynamics (Distinction)

May 2002

Worcester Polytechnic Institute (WPI), Worcester, MA

- Senior thesis: *The System Dynamics of Automobile Fuel Economy.* Advisor: Jim Lyneis.
 - Junior thesis: *Risk Amplification of GMOs in Europe* (Completed in Basel/Zurich, Switzerland). Advisor: Wesley Jamison.
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PROFESSIONAL EXPERIENCE

Assistant (2007-2013)/Associate (2013-2018)/ Professor (2018- 2020)/ Distinguished Professor of Sustainable Community Design (2020-)

2007 - Present

Department of City and Regional Planning, University of North Carolina at Chapel Hill

- Director, Odum Institute for Research in Social Science (2018-Present)
- Faculty Fellow, Center for Urban and Regional Studies (CURS)
- Faculty Member, UNC Environment, Ecology, and Energy Program

Honorary Visiting Professor

Fall 2016

Center for Advanced Spatial Analysis, University College-London, London, UK

2012 Frederick J. Clarke Fellow

Spring 2012

Institute for Water Resources, U.S. Army Corps of Engineers, Alexandria, VA

Visiting Scholar

Spring 2012

*Department of Urban Studies and Planning, Massachusetts Institute of
Technology, Cambridge, MA*

Visiting Professor

Fall 2011

*Géographie-cités (CNRS Research Project), Institut de Géographie, Université
Paris 1 (Panthéon-Sorbonne), Paris, France*

HONORS

- UNC Center for Urban and Regional Studies (CURS) Scholar in Residence (Fall 2017)
 - Outstanding Summer Course Award, Huazhong Agricultural University, Wuhan, China (Summer 2014)
 - Frederick J. Clarke Scholar – Institute of Water Resources, U.S. Army Corps of Engineers (Spring 2012)
 - Lone Mountain Fellow – Property and Environment Research Center (July, 2010)
 - Sigma Xi National Scientific Research Society (Full Member, Elected 2009)
 - GlaxoSmithKline Faculty Fellow – Institute for Emerging Issues, N.C. State University (2009)
 - Outstanding Ph.D. Award, UIUC Department of Urban and Regional Planning (May 2007)
 - Dana Meadows Award, Best student paper presented at 2005 International System Dynamics Society Conference
 - University of Illinois Conference Travel Award: Omaha, Nebraska (May, 2004), Fort Worth, TX (Nov., 2006)
 - Philip Abelson Fellowship, Washington State University (2003)
 - Edward R. Meyer Scholarship, Washington State University (2003)
 - Institute Scholarship, Worcester Polytechnic Institute (2000-2002)
 - Admitted to WPI Zurich Project Center to complete junior thesis (2001)
 - Member of Phi Theta Kappa, international two-year honor society (1997)
-

BIBLIOGRAPHY

Books

BenDor, Todd K. and Jürgen Scheffran. 2019. *Agent-Based Modeling of Environmental Conflict and Cooperation*. Boca Raton, FL: CRC Press.

Refereed Articles (* Denotes Student Author)

64. Schwaller, Nora Louise*, Sophie Kelmenson*, Danielle Spurlock, Todd K. BenDor. 2020. Political ideology and household-level attitudes towards flood protection in the face of coastal flooding. *Environmental Science and Policy (In Press)*.
63. Onda, Kyle*, Jordan Branham*, Todd K. BenDor, Nikhil Kaza, David Salvesen. 2020. Does removal of federal subsidies discourage development? An evaluation of the US Coastal Barrier Resources Act. *PLoS ONE* 15(6): e0233888.
62. BenDor, Todd K., David Salvesen, Christian Kamrath*, and Brooke Ganser*. 2020. Floodplain buyouts and municipal finance. *Natural Hazards Review* 21(3): 04020020.
61. Whittemore, Andrew H. and Todd K. BenDor. Rhetorical Framing in Planning: An Empirical Investigation of How Planners Discuss Density. *Journal of Planning Education and Research (In Press)*: <https://doi.org/10.1177/0739456X18774824>.
60. Whittemore, Andrew H. and Todd K. BenDor. 2019. Opposition to housing development in a suburban US County: Characteristics, origins, and consequences. *Land Use Policy* 88: 104158.
59. Frerichs, Leah, Natalie Smith, Kristen Hassmiller Lich, Todd K. BenDor, Kelly R. Evenson. 2019. A scoping review of simulation modeling in built environment and physical activity research: current status, gaps, and future directions for improving translation. *Health and Place* 57:122-130.
58. Tully K, Gedan K, Strong A, Bernhardt E, BenDor T.K., Mitchell M, Kominoski J, Jordan T, Neubauer S, Weston N. 2019. The invisible flood: the chemistry, ecology, and consequences of saltwater intrusion. *Bioscience* 69(5): 368-378.
57. Shoemaker, Douglas A., Todd K. BenDor, and Ross K. Meentemeyer. 2019. Integrating Urbanization and Ecosystem Service Models to Explore Alternative Regional Futures. *Computers, Environment, and Urban Systems* 74: 114–125
56. Sterling, E.J., Zellner, M., Jenni, K.E., Leong, K., Glynn, P.D., BenDor, T.K., Bommel, P., Hubacek, K., Jetter, A.J., Jordan, R., Schmitt Olabisi, L., Paolisso, M. and Gray, S., 2019. Try, try again: Lessons learned from success and failure in participatory modeling. *Elementa science of the Anthropocene* 7(1): 9.
55. Whittemore, Andrew H. and Todd K. BenDor. 2019. Reassessing NIMBY: The demographics, politics, and geography of opposition to high-density residential infill. *Journal of Urban Affairs* 41(4): 423-442.
54. Whittemore, Andrew H. and Todd K. BenDor. 2018. Exploring the Acceptability of Densification: How Positive Framing and Source Credibility Can Change Attitudes. *Urban Affairs Review* 55(5): 1339-1369.
53. Voinov, Alexey, Karen Jenni, Steven Gray, Nagesh Kolagani, Pierre D. Glynn, Pierre Bommel, Christina Prell, Moira Zellner, Eleanor Sterling, Michael Paolisso, Laura Schmitt Olabisi, Philippe J. Giabbanelli, Zhanli Sun, Christophe

- Le Page, Sondoss Elsworth, Todd K. BenDor, Klaus Hubacek, Bethany K. Laursen, Alison Singer, Jessica Brunacini, Laura Young. 2018. Tools and methods in participatory modeling: selecting the right tool for the job. *Environmental Modelling and Software* 109: 232-255.
52. Jordan, Rebecca, Steven Gray, Moira Zellner, Pierre D. Glynn, Alexey Voinov, Beatrice Hedelin, Eleanor J. Sterling, Kirsten Leong, Laura Schmitt Olabisi, Klaus Hubacek, Pierre Bommel, Todd K. BenDor, Antonie J. Jetter, Bethany Laursen, Alison Singer, Philippe J. Giabbanelli, Nagesh Kolagani, Laura Basco Carrera, Karen Jenni, and Christina Prell. 2018. Twelve Questions for the Participatory Modeling Community. *Earth's Future* 6(8): 1046-1057.
51. Bhattachan, Abinash, Ryan Emmanuel, Todd K. BenDor, and Marcelo Ardon-Sayao. 2018. Evaluating the effects of land-use change and future climate change on vulnerability of coastal landscapes to saltwater intrusion. *Elementa: Science of the Anthropocene* 6: 62.
50. Woodruff, Sierra, Todd K. BenDor, and Aaron Strong. 2018. Fighting the inevitable: infrastructure investment and coastal community adaptation to sea level rise. *System Dynamics Review* 34(1-2): 48-77.
49. BenDor, Todd K., Vivek Shandas, Brian Miles, Kenneth Belt, and Lydia Olander. 2018. Ecosystem Services and U.S. Stormwater Management: An Agenda for Improving Urban Stormwater Decisions. *Environmental Science and Policy* 88: 92-103.
48. Gray, Steven, Alexey Voinov, Michael Paolisso, Rebecca Jordan, Todd K. BenDor, Pierre Bommel, Pierre Glynn, Beatrice Hedelin, Klaus Hubacek, Josh Introne, Nagesh Kolagani, Bethany Laursen, Christina Prell, Laura Schmitt-Olabisi, Alison Singer, Eleanor Sterling, and Moira Zellner. 2018. Purpose, Processes, Partnerships, and Products: 4Ps to advance Participatory Socio-Environmental Modeling. *Ecological Applications* 28(1): 46-61.
47. Whittemore, Andrew H., and Todd K. BenDor. 2018. Talking about Density: An Empirical Investigation of Framing. *Land Use Policy* 72: 181-91.
46. Vitro, Kristen A. *, Miranda E. Welsh*, Todd K. BenDor, Aaron Moody. 2017. Ecological theory explains why diverse island economies are more stable. *Complex Systems* 26(30): 135-156.
45. Vitro, Kristen A. *, Todd K. BenDor, and J. Adam Riggsbee. 2017. Pre-listing conservation of candidate species under the endangered species act: An evaluation of prevalence, accessibility, and market-based conservation efforts. *Environmental Science and Policy* 74: 68-74.
44. Galik, Christopher, Todd K. BenDor, Julie DeMeester and David Wolfe. 2017. Improving Habitat Exchange Planning Through Theory, Application, and Lessons from Other Fields. *Environmental Science and Policy* 73: 45-51.
43. Vitro, Kristen A. *, Todd K. BenDor, Tania V. Jordanova*, Brian Miles*. 2017. A geospatial analysis of land use and stormwater management on fecal coliform contamination in North Carolina streams. *Science of the Total Environment* 603-604: 709-727.
42. BenDor, Todd K., Danielle Spurlock, Sierra Woodruff*, and Lydia Olander. 2017. A research agenda for ecosystem services in American environmental and land use planning. *Cities* 60 (Part A): 260-271.
41. Woodruff, Sierra* and Todd K. BenDor. 2016. Ecosystem services in urban planning: Comparative paradigms and guidelines for high quality plans. *Landscape and Urban Planning* 152: 90-100.
40. Widis, Daniel C. *, Todd K. BenDor, and Michael Deegan. 2015. Prioritizing Wetland Restoration Sites: A Review and Application to a Large-Scale Coastal Restoration Program. *Ecological Restoration* 33(4): 358-377.
39. Woodruff, Sierra* and Todd K. BenDor. 2015. Is Information Enough? The Effects of Watershed Approaches and Planning on Targeting Ecosystem Restoration Sites. *Ecological Restoration* 33(4): 378-387.
38. BenDor, Todd K., T. William Lester, Avery Livengood*, Adam Davis, Logan Yonavjak*. 2015. Estimating the Size and Impact of the Ecological Restoration Economy. *PLoS ONE* 10(6): e0128339.
37. BenDor, Todd K., Avery Livengood*, T. William Lester, Adam Davis, and Logan Yonavjak*. 2015. Defining and Evaluating the Ecological Restoration Economy. *Restoration Ecology* 23(3): 209-219.
36. Berry, Marisa* and Todd K. BenDor. 2015. Integrating Sea Level Rise into Development Suitability Analysis. *Computers, Environment, and Urban Systems* 51: 13-24.
35. BenDor, Todd K., Douglas A. Shoemaker*, Jean Claude Thill, Monica Dorning*, Ross K. Meentemeyer. 2014. A Mixed-Methods analysis of socio-ecological feedbacks between urbanization and forest persistence. *Ecology and Society* 19(3): 3.
34. Robertson, Morgan, Todd K. BenDor, Rebecca Lave, J. Adam Riggsbee, J.B. Ruhl, and Martin Doyle. 2014. Stacking ecosystem services. *Frontiers in Ecology and the Environment* 12: 186-193.
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32. BenDor, Todd K., Tianshu Guo*, and Andrew Yates. 2014. Optimal Staging of Credit Releases in Ecosystem Service Markets. *Environmental Management* 53: 496–509.
31. Rissman, Jeffrey*, Sarav Arunachalam, Todd K. BenDor, Jason West. 2013. Equity and Health Impacts of Aircraft Emissions at the Hartsfield-Jackson Atlanta International Airport. *Landscape and Urban Planning* 120: 234-247.
30. Rissman, Jeffrey*, Sarav Arunachalam, Matt Woody, Jason West, Todd K. BenDor, H. Wong, and F. Binkowski. 2013. A plume-in-grid approach to characterize air quality impacts of aircraft emissions at the Hartsfield–Jackson Atlanta International Airport. *Atmospheric Chemistry and Physics* 13: 9285-9302.
29. Kaza, Nikhil and Todd K. BenDor. 2013. Land Value Impacts of Wetland Restoration. *Journal of Environmental Management* 127: 289-299.
28. BenDor, Todd K., James Westervelt, and Yan Song. 2013. Modeling park development through regional land use change simulation. *Land Use Policy* 30(1): 1-12.
27. BenDor, Todd K. and Nikhil Kaza. 2012. A Theory of Spatially Dynamic Reference Modes and System Archetypes. *System Dynamics Review* 28(2): 109-130.
26. BenDor, Todd K. 2012. The System Dynamics of Automobile American Fuel Economy. *Sustainability* 4: 1013-1042.
25. Oppenheimer, Kathleen* and Todd K. BenDor. 2012. A Comprehensive Solution to the Biofouling Problem for the Endangered Florida Manatee and other Species. *Environmental Law Review* 42(2): 415-467.
24. Doyle, Martin and Todd K. BenDor. 2011. Evolving Law and Policy for Freshwater Ecosystem Service Markets. *William & Mary Environmental Law & Policy Review* 36(1): 153-191.
23. BenDor, Todd K., J. Adam Riggsbee and Martin Doyle. 2011. Risk in Ecosystem Service Markets. *Environmental Science and Technology* 45(24): 10322-10330.
22. BenDor, Todd K., Philip Berke, Dave Salvesen, Yan Song, and Nora Lenahan*. 2011. Assessing Local Government Capacity to Manage and Model Military-Induced Growth in Eastern North Carolina. *Planning Practice and Research* 26(5): 531-553.
21. Van Schaack, Chandler* and Todd K. BenDor. 2011. A Comparative Study of Green Building in Urban and Rural North Carolina. *Journal of Environmental Planning and Management* 54(8): 1125-1147.
20. BenDor, Todd K. and J. Adam Riggsbee. 2011. Regulatory and Ecological Risk under Federal Requirements for Compensatory Wetland and Stream Mitigation. *Environmental Science and Policy* 14: 639-649.
19. BenDor, Todd K., Sara Metcalf, Mark Paich. 2011. The Dynamics of Brownfield Redevelopment. *Sustainability* 3(6): 914-936
18. BenDor, Todd K. and J. Adam Riggsbee. 2011. Effects of Federal Mitigation Rules on Wetland and Stream Mitigation Banking Risk. *Environmental Science and Policy* 14(3): 301-314.
- Selected as Editor's Choice in Science: "Banking on Wetlands" (29 April, 2011; Science 332: 514)**
17. BenDor, Todd K. and Audrey Stewart*. 2011. Land Use Planning and Social Equity in North Carolina's Compensatory Wetland Mitigation Program. *Environmental Management* 47(2): 239-253.
16. Westervelt, James, Todd K. BenDor and Joseph Sexton. 2011. A Technique for Rapidly Assessing Regional Scale Urban Growth. *Environment and Planning: B* 38(1): 61-81.
15. Berg, Hannah* and Todd K. BenDor. 2010. A Case Study of Form-Based Solutions for Watershed Protection. *Environmental Management* 46: 436-451.
14. Metcalf, Sara S., Emily Wheeler, Todd K. BenDor, Ken Lubinski, and Bruce M. Hannon. 2010. Sharing the Floodplain: Finding Common Ground through Mediated Modeling. *Environmental Modelling and Software* 25(11): 1282-1290.
13. BenDor, Todd K. and Martin Doyle. 2010. Planning for Ecosystem Service Markets. *Journal of the American Planning Association* 76(1): 59-72.
12. Hamstead, Zoe* and Todd K. BenDor. 2010. Nutrient Trading for Enhanced Water Quality: A Case Study of North Carolina's Neuse River Compliance Association. *Environment and Planning: C* 28(1): 1-17.
11. BenDor, Todd K., Joel Sholtes*, Martin Doyle. 2009. Landscape Characteristics of a Stream and Wetland Mitigation Banking Program. *Ecological Applications* 19(8): 2078-2092
10. BenDor, Todd K. Jim Westervelt, J.P. Aurambout, and William Meyer. 2009. Simulating Population Variation and Movement within Fragmented Landscapes: A Spatial Dynamic Model of the Gopher Tortoise (*Gopherus polyphemus*). *Ecological Modelling* 220: 867-878.
9. Scheffran, Jürgen, Todd K. BenDor, and Bruce M. Hannon. 2009. Bioenergy and Land Use: A Spatial-Agent Dynamic Model of Energy Crop Production in Illinois. *International Journal of Environment and Pollution* 39(1/2): 4-27.

8. BenDor, Todd K., Jürgen Scheffran, and Bruce M. Hannon. 2009. Ecological and Economic Sustainability in Fishery Management: A Multi-Agent Model for Understanding Competition and Cooperation. *Ecological Economics* 68(4): 1061-1073.
7. BenDor, Todd K. 2009. A Dynamic Analysis of the Wetland Mitigation Process and Its Effects on No Net Loss Policy. *Landscape and Urban Planning* 89: 17-27.
6. BenDor, Todd K., Nicholas Brozovic, and Varkki George Pallathucheril. 2008. The Social Impacts of Wetland Mitigation Policies in the United States. *Journal of Planning Literature* 22: 341-357.
5. BenDor, Todd K. and Nicholas Brozovic. 2007. Determinants of Spatial and Temporal Patterns in Compensatory Wetland Mitigation. *Environmental Management* 40(3): 349-364
4. BenDor, Todd K., Nicholas Brozovic, and Varkki George Pallathucheril. 2007. Assessing the Socioeconomic Impacts of Wetland Mitigation in the Chicago Region. *Journal of the American Planning Association* 73(3): 263-282.
3. BenDor, Todd K., Sara S. Metcalf, Lauren E. Fontenot, and Brandi Sangunett. 2006. Modeling the Emerald Ash Borer Spread: A Decision Support System for Invasive Species Eradication. *Ecological Modelling* 197: 221-236.
2. BenDor, Todd K. and Sara S. Metcalf. 2006. The Spatial Dynamics of Invasive Species Spread. *System Dynamics Review* 22(1): 27-50.
1. BenDor, Todd K. and Andrew Ford. 2006. Simulating a Combination of Feebates and Scrappage Incentives to Reduce Automobile Emissions. *Energy* 31: 1197-1214.

Book Chapters

- Woodruff*, Sierra, Kristen A Vitro*, and Todd K BenDor. 2018. GIS and Coastal Vulnerability to Climate Change. In: *Comprehensive Geographic Information Systems, Volume 2*. Elsevier: Oxford, England. Pgs. 236–257
- Kelmenson, Sophie*, Todd K. BenDor, and T. William Lester. 2017. The economic impacts of a single restoration project. In: *Economia Da Restauração Florestal (Forest Restoration Economy)*, edited by Rubens Benini and Sergio Adeodato. The Nature Conservancy: São Paulo, Brazil. (Published in Portuguese and English). Pgs. 92-105.
- Auerbach, Daniel A.* and Todd K. BenDor. Prospects for Pre-Listing Conservation in Freshwater Ecosystems. 2014. In: *Markets and the Endangered Species Act: Incentivizing Conservation Upstream of Regulation*, edited by Josh Donlan and Todd Gardner. University of California Press: Berkeley, CA. Pgs. 149-166.
- Westervelt, James and Todd K. BenDor. (2012). A Technique for Rapidly Forecasting Regional Urban Growth. In: *Ecologist-Developed Spatially-Explicit Dynamic Landscape Models*, edited by James Westervelt and Gordon Cohen. Springer-Verlag: New York. Pgs. 223-234.
- BenDor, Todd K, James Westervelt, J.P. Aurambout, and William Meyer. (2012). Simulating Gopher Tortoise (*Gopherus polyphemus*) Populations in Fragmented Landscapes: an Application of the FRAGGLE model. In: *Ecologist- Developed Spatially-Explicit Dynamic Landscape Models*, edited by James Westervelt and Gordon Cohen. Springer- Verlag: New York. Pgs. 171-195.
- Doyle, Martin and Todd K. BenDor. 2012. Markets for freshwater ecosystem services. In: *Aquanomics: Water Markets and the Environment*. Edited by D. Gardener and R. Simmons. Independent Institute Press: San Francisco, CA. Pgs. 17-42.
- Jamison, Wesley, Todd. K. BenDor, Adrienne. L. Kolpak, and Maureen A. McDonnell. 2004. Political and Social Risk Amplification of GMOs. In: *Handbook of Plant Biotechnology*, edited by Paul Christou. John Wiley & Sons: London. Pgs. 949-957.

Non-Refereed Published Works

- BenDor, Todd K. 2020. An Infrastructure Package Could Help America's Economy and the Environment. RealClear Energy. https://www.realclearenergy.org/articles/2020/06/23/an_infrastructure_package_could_help_americas_economy_-_and_the_environment_497042.html
- Martin Doyle, Lydia Olander, Ori Sharon, Sara Mason, and Todd K. BenDor. 2020. Compensatory Mitigation on Federal Lands. Duke University: Durham, NC. Nicholas Institute for Environmental Policy Solutions. <https://nicholasinstitute.duke.edu/publications/compensatory-mitigation-federal-lands>
- BenDor, Todd K, and David Salvesen. 2018. Improving NC's Floodplain Buyout Program. Coastal Review Online. November 2, 2018: <https://www.coastalreview.org/2018/11/improving-ncs-floodplain-buyout-program/>
- Salvesen, David, Todd K. BenDor, Christian Kamrath, and Brooke Ganser. 2018. Floodplain buyouts and municipal finance. Final report for UNC Policy Collaboratory. Chapel Hill, NC: University of North Carolina.
- BenDor, Todd K. 2017. Tampering with scientific advisory boards destroys public trust. Op-ed in the Raleigh News and Observer." May 17, 2017: <http://www.newsobserver.com/opinion/op-ed/article151130352.html>

- Final Report of the EPA Board of Scientific Counselors, Sustainable and Healthy Communities Subcommittee. 2017. SHC Topic 3: Sustainable Approaches for Contaminated Sites and Materials Management. Prepared by the Sustainable and Healthy Communities Subcommittee. Submitted to the Board of Scientific Counselors Executive Committee. January 26, 2017
- BenDor, Todd K. 2017. Analysis of Trail User Spending for the Rails to Trails Conservancy's Northeastern Trail Network. Rails to Trails Conservancy: Washington, D.C.
- Kelmenson, Sophie*, Todd K. BenDor, and T. William Lester. 2016. Economic Impacts of the US Ecological Restoration Sector. *Communities & Banking* Summer: 25-27.
- BenDor, Todd K. 2015. Saltwater intrusion a threat. Op-ed in the "Greenville Reflector." June 15, 2015: <http://www.reflector.com/opinion/other-voices/bendor-saltwater-intrusion-threat-2905969>
- BenDor, Todd K. and Kristen Vitro. 2014. Comments on "Policy Regarding Voluntary Prelisting Conservation Actions (Rulemaking)" by USFWS. [Action: FWS-R9-ES-2011-0099-0111] Comment ID: 1jy-8fck-g2cr.
- Hesselgrave, Taylor, Cathy Kellon, Todd K. BenDor, and Noah Enelow. Proposal for 2017 North American Industry Classification System (NAICS) Revision [NAICS designation for firms engaging in the ecological restoration industry]. In Response to 29 Fed Reg 99, 5/22/14. Docket number 17-0070. 29 pages.
- BenDor, Todd K. and Sierra Woodruff*. 2014. Comments on the Environmental Defense Fund and American Habitat Center Habitat Credit Exchange (HCEX) (FWS-R2-ES-2013-0134) by USFWS, "Notice of Intent to Prepare an Environmental Impact Statement for a Habitat Conservation Plan for Commercial Developments, Including Energy Developments, and Agricultural and Conservation Activities Within Six States" (79 FR 7472).
- BenDor, Todd K., T. William Lester, Avery Livengood*, Adam Davis, and Logan Yonavjak*. 2014. Exploring and Understanding the Restoration Economy. Final report to Walton Family Fund. Also UNC Center for Urban and Regional Studies white paper [Online]: <https://curs.unc.edu/files/2014/01/RestorationEconomy.pdf>
- BenDor, Todd K. and Sierra Woodruff*. 2014. Comments on the temporary/permanent nature of LPC habitat impacts. Formal comments submitted to federal rulemaking (FWS-R2-ES-2012-0071; 4500030113) by USFWS, "Endangered and Threatened Wildlife and Plants; Listing the Lesser Prairie-Chicken as a Threatened Species with a Special Rule" (50 CFR Part 17).
- BenDor, Todd K. and Sierra Woodruff*. 2014. Comments on the Western Association of Fish and Wildlife Agencies' Lesser Prairie-Chicken Range-Wide Conservation Plan. Formal comments submitted to federal rulemaking (FWS-R2-ES-2012-0071; 4500030113) by USFWS, "Endangered and Threatened Wildlife and Plants; Listing the Lesser Prairie-Chicken as a Threatened Species with a Special Rule" (50 CFR Part 17). Also published as UNC Institute for the Environment Whitepaper.
- BenDor, Todd K. and Sierra Woodruff*. 2014. Moving targets and biodiversity offsets for endangered species habitat: Is habitat a stock or flow? UNC Institute for the Environment Whitepaper.
- BenDor, Todd K. and Sierra Woodruff*. 2014. Preliminary Analysis of the Habitat Credit Exchange (HCEX). UNC Institute for the Environment Whitepaper.
- Berkey, Kathleen Oppenheimer* and Todd K. BenDor. 2013. A Comprehensive Solution to the Biofouling Problem for the Endangered Florida Manatee & Other Species. *Planning and Law* (Summer 2013): 7. Planning and Law Division of the *American Planning Association*.
- BenDor, Todd K. and Robert Goodspeed. 2013. Keeping Up with the Field: Computerized Tools for Tracking Research and New Ideas. *Planetizen* (Tuesday, Feb 5, 2013). [Online]: <http://www.planetizen.com/node/60607>
- Leitelt, Lyle* and Todd K. BenDor. 2010. Developing a Solar Energy Potential Map for Chapel Hill, NC. *Planning Advisory Service Memo*. (November/December 2010). [Also Online]: <http://www.planning.org/pas/memo/2010/nov/>
- BenDor, Todd K., Joel Sholtes*, and Martin Doyle. 2010. Landscape Characteristics of a Stream and Wetland Mitigation Banking Program (abstract). *National Wetlands Newsletter* 32(4): 16
- BenDor, Todd K. and Martin Doyle. The Authors Respond. *National Wetlands Newsletter* 32(4): 21
- BenDor, Todd K. and Chandler Van Schaack*. 2010. Greener building for a growing rural NC," Op-Ed in *Asheville Citizen-Times* (Asheville, NC: April 20, 2010): <http://www.citizen-times.com/apps/pbcs.dll/article?AID=2010100419033>
- BenDor, Todd K., J. Adam Riggsbee, and George Howard. 2010. A Survey of Mitigation Banker Perceptions and Experiences Under the 2008 Federal Mitigation Regulations. *National Wetlands Newsletter* 32(2): 11-15.
- Doyle, Martin and Todd K. BenDor. "Stream Restoration: Who Really Benefits," Op-Ed in *Raleigh News and Observer* (Raleigh, NC: December 8, 2009): http://www.newsobserver.com/opinion/columnists_blogs/other_views/story/242385.html

- BenDor, Todd K., J. Adam Riggsbee, and George Howard. "Mitigation Bankers Say New Rule Heightens Old Conflicts: Survey." Op-Ed at *Ecosystem Marketplace* (November 20, 2009; [EMP is a major, worldwide clearinghouse for ecosystem services and market information]): http://ecosystemmarketplace.com/pages/article.opinion.php?component_id=7231&component_version_id=11043&language_id=12
- BenDor, Todd K. "A New Form of Water-Quality Protection," Op-Ed in *Raleigh News and Observer* (Raleigh, NC: November 1, 2009): http://www.newsobserver.com/opinion/columnists_blogs/other_views/story/166402.html.
- BenDor, Todd K. and J. Adam Riggsbee. A National Survey of Federal Mitigation Regulations and their Impacts on Wetland and Stream Banking. Report to the National Mitigation Banking Association (NMBA) (Orlando, FL).
- BenDor, Todd K. "BRAC Demands Require Creativity," Op-Ed in *Fayetteville Observer* (Fayetteville, NC: July 9, 2009): <http://www.fayobserver.com/Articles/2009/07/08/915698>.
- Berke, Phillip, Todd K. BenDor, Dave Salvesen, Yan Song and Nora Lenahan*. 2009. "Building Local Government Capacity to Manage Growth in Eastern North Carolina." A Report to support the Southeast Regional Partnership for Planning and Sustainability (SERPPAS). Center for Sustainable Community Design, Institute for the Environment. University of North Carolina at Chapel Hill: Chapel Hill, NC.
- BenDor, Todd and Martin Doyle. "Build the Environment, Too," Op-Ed in *Raleigh News and Observer* (Raleigh, NC: March 5, 2009): <http://www.newsobserver.com/opinion/columns/story/1428828.html>.
- BenDor, Todd K. and Nicholas Brozovic. 2007. The Role of Regulatory Change on Wetlands Mitigation. *The National Wetlands Newsletter*, 29(4): 10-13, 21.
- BenDor, Todd K., Jeff M. Bielicki, Brian S. Powell, and Derrick T. Robinson. 2004. Modeling Feedback Mechanisms Between Land Use and Climate Change. Proceedings of the 2004 Santa Fe Institute Complex Systems Summer School, Santa Fe, NM (June 6–July 3, 2004). Paper and plenary session presentation.

Conference Papers and Presentations (list available upon request)

TEACHING ACTIVITIES

Courses Taught (All syllabi available at: <http://todd.bendor.org/teaching>)

- PLAN 055: *Freshman Seminar – Sustainable Cities*. Fall 2014 (15 students)
- PLAN 641: *Ecology and Land Use Planning*. Fall 2014 (16 students), Fall 2015 (20 students), Fall 2017, Fall 2018, Spring 2020
- PLAN 721: *Advanced Planning Methods*. Spring 2015 (25 students), Spring 2016 (21 students), Spring 2017 (14 students), Spring 2018
- PLAN 722: *Systems Thinking and Modeling for Planners*. Spring 2015 (22 students), Spring 2016 (18 students), Spring 2017 (16 students), Spring 2018, Fall 2018
- PLAN 745: *Development Impact Assessment*. Spring 2015 (11 students), Spring 2016 (13 students), Spring 2017 (22 students), Spring 2018, Fall 2019, Fall 2020 (22 students)
- PLAN 911: *Academic Publishing for Planning Graduate Students (PhD seminar)*. Fall 2015 (15 students), Spring 2019 (9 students)
- PLAN 911: *Grant and Proposal Writing in Planning (PhD seminar)*. Spring 2016 (11 students)
- PLAN 911: *Professional Development (PhD seminar)*. Fall 2018 (10 students)
- Teaching activities at UNC Odum Institute for Research in the Social Sciences: *Introduction to Agent-Based Modeling, Introduction to Systems Thinking and System Dynamics Modeling, Academic Publishing 101* (2014–Present)
- 2015-2016 Instructor in "Data Matters" Data Science Short Course Series" for National Consortium on Data Science: *Simulation Strategies in Data Science: System Dynamics and Agent-based Modeling*

GRANTS

- 2019-2020: Innovating floodplain buyouts: evaluating the buyout process and physical risk reduction through buyout targeting. Improving North Carolina's Resilience to Coastal Riverine Flooding. UNC Policy Collaboratory (PI) (\$424,878, 11.11% effort)
- 2019-2020: Improving North Carolina's Resilience to Coastal Riverine Flooding. UNC Policy Collaboratory (Co-PI) (\$91,375 [\$337,000 total], 0% effort)
- 2019-2020: Mitigating the impacts of WOTUS uncertainty on North Carolina. UNC Policy Collaboratory (Co-PI) (\$34,166, 0% effort)

- 2019-2021: Dynamics of Extreme Events, People, and Places (DEEPP). UNC Office of the Vice Chancellor for Research, Creativity Hub Pilot Award (Co-PI) (\$500,000, 0% effort)
- 2018-2019: Development of Water Quality Trading Data and Resources to Support Environmental Markets. USDA Office of Environmental Markets (PI) (\$25,000, 22.22% effort)
- 2018-2021: RCN: Smart Civic Engagement in Rapidly Urbanizing Regions. NSF Smart & Connected Communities (SCC # 1737563) (Co-PI), (\$41,237, 11.11% effort)
- 2017-2018: Are Floodplain Buyouts a Smart Investment for Local Governments? UNC Policy Collaboratory (Co-PI) (\$75,000, 11.11% effort)
- 2017-2020: "How does removal of infrastructure subsidies alter development? Evaluating the impact of the U.S. Coastal Barrier Resources Act." NSF Geography and Spatial Sciences (GSS #1660450) (PI) (\$348,507, 11.11% effort)
- 2015-2020: Salinization of the inland coastal plain through saltwater intrusion: landscapes in transition along the leading edge of climate change." NSF Coastal SEES (#1427188) (Co-PI) (\$357,340 total amount, 11.11 % effort)
- 2013: "The Restoration Economy." The Conservation Fund (PI) (\$10,000, 0% effort)
- 2013-2014: "A National Survey of Jobs Associated with The Restoration Economy." Blue Moon Fund (PI) (\$58,000, 6.3% effort)
- 2013: "Understanding and Exploring the Restoration Economy." Walton Family Fund (PI) (\$30,000, 4% effort)
- 2012 – 2014: "Ecosystem Services as an Alternative Foundation for Development, Urban Planning, and New Water Infrastructure in the U.S." National Academies Keck Futures Initiative (NAKFI) (Co-PI) (\$25,694, 5.2% effort)
- 2010 – 2012: "Decision Support System Frameworks for Eastern North Carolina." DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS) (Co-PI) (\$50,000, 5% effort)
- 2010 – 2013: "Hierarchical Analysis of Socio-Ecological Interactions in the Charlotte Metropolitan Region: Can Urbanization, Forest and Working Lands Coexist?" NSF ULTRA-Ex (#0949170) (Co-PI). (\$13,966, 5.55% effort)
- 2010 – 2012: "Reconciling Human and Natural Systems for the Equitable Provision of Ecosystem Services in the Triangle of North Carolina." NSF Ultra-Ex (#0948181) (Senior personnel) (\$92,903, 0% effort)
- 2010: "Urban Growth and Environmental Markets to Achieve Pollution Neutrality." UNC Junior Faculty Development Grant (PI) (\$7,500, 0% effort)
- 2008 – 2010: "Academic Workshop Follow-up: Research to Promote a Sustainable Southeast." DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS) (Co-PI) (\$64,685, 7.5% effort)
- 2009 – 2010: "Academic Workshop Follow-up: Research to Promote a Sustainable Southeast." DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS) (Co-PI) (\$55,120, 8% effort)
- 2009 – 2011 "Does Environmental Restoration increase Land Values and Tax Base?: Wetlands as a New Type of Infrastructure Amenity." UNC University Research Council Grant (PI) (\$5,000, 0% effort)
- 2009 – 2009 GlaxoSmithKline Faculty Fellowship. Institute for Emerging Issues, NC State University (PI) (\$15,000, 0% effort)
- 2008 – "Assessment of North Carolina Ecosystem Enhancement Program." UNC Institute of the Environment, Center of Landscape Change and Health (PI) (\$7,000, ~6% effort)
- 2007 – "Urban Land Use Modeling Feasibility Study for North Carolina." Renaissance Computing Institute (RENCI). (PI) (\$7,200, 8.3% effort)

PROFESSIONAL SERVICE

Department of City and Regional Planning (UNC-Chapel Hill) Service

- Director, Graduate Studies (MCRP 2013-2015; PhD 2015-2019)
- Director, Land Use and Environmental Planning Specialization (2013-2019)
- Associate Director, PhD Program (2012-2013)

UNC- Chapel Hill Service

- Director, Odum Institute for Research in Social Science (Fall 2018-Present)
- Team Lead, UNC Provost's "Carolina Next" Strategic Planning Committee (Obj. 6.2: Faculty outreach) (Summer 2020-Present)
- Member, UNC Chancellor's Buildings and Grounds Committee (Fall 2017-Present)
- Member, UNC Provost's DataScience@Carolina Committee (Liaison to Research Sub-committee) (2018-2020)
- Member, Evaluation Committee for Odum Institute for Research in the Social Sciences (2016)
- Member, Evaluation Committee for Institute for Marine Sciences (2019)

- Faculty Advisor, Students for the New Urbanism/Carolina Urbanists, UNC Student Group (2012-2014); Epsilon Eta, Co-Ed Environmental Honors Fraternity, UNC Alpha Chapter (2009-2010); UNC Home Brewers (2014-2016)

Disciplinary Service

- Editorial board, *Landscape and Urban Planning* (2018-Present)
- Track Chair, Resources, *International System Dynamics Conference* (2017-Present)
- Associate Editor, *Environmental Science and Policy* (2016-2018)
- Member, EPA Board of Scientific Counselors (BOSC) Sustainable & Healthy Communities Subcommittee (2014-2017)
- Member, Scientific Review Committee, *National Socio-Environmental Synthesis Center* (SESYNC) (2013-2018)
- Member, Advisory Board for the System Dynamics Major, *Worcester Polytechnic Institute* (2008-2011)
- Advisor, Land Use Impact Assessment Team, *State of NC Sea Level Rise Risk Management Study* (2007-2008)
- Reviewer for many journals, including (but not limited to): *Journal of the American Planning Association*, *Luxembourg FNR (NSF Grant-making equivalent)*, *Portuguese Foundation for Science and Technology (FCT; Portuguese Research Council)*, *Diversity and Distributions*, *Journal of Planning Education and Research*, *Environmental Management*, *Journal of Environmental Management*, *Ecological Modeling*, *Ecological Economics*, *Biological Conservation*, *Environmental Management Review*, *System Dynamics Review*, *Ecological Restoration*, *Ecological Applications*, *Ecological Engineering*, *Landscape Ecology*, *Journal of Environmental Planning and Management and Ecology*, and others.
- Facilitator, 2009 Emerging Issues Forum, *N.C. State University Institute for Emerging Issues*
- Community Facilitator for Champaign County “big.small.all” visioning and planning project, 2006-2007
- Facilitator for UIUC Graduate College Workshop (2007), “Three Magic Letters: Getting to Ph.D.: A Symposium for Graduate Faculty, Students, and Alumni.”
- Professional memberships: *International System Dynamics Society*, *American Planning Association*, *Ecosystem Services Partnership (Foundation for Sustainable Development)*

Profile

Whenever possible, submit your application prior to the scheduled meeting of the affected advisory board so that they can consider all applications prior to making a recommendation to Council.

Public Records Statement

I acknowledge that all information submitted in this application becomes a public record and will be searchable online. The Town is not able to remove information from the public record once it has been posted.

I Agree

conway.michael.f@gmail.com

Email Address

Michael

First Name

F

Middle Initial

Conway

Last Name

3910 Sweeten Creek Road

Street Address

Suite or Apt

Chapel Hill

City

NC

State

27514

Postal Code

Mobile: (650) 796-3246

Primary Phone

Alternate Phone

Residency within the Town limits is required for membership on most Council advisory bodies. Memberships of some committees and task forces may be composed of up to forty percent of non-Town residents.

What district do you live in? *

Chapel Hill Town limits (Purple)

[Please consult the town maps HERE if you are unsure.](#)

If you are a Chapel Hill Resident, How long have you lived here?

4-9 years

The Council encourages you to visit a meeting of the group that you are interested in serving on. Please choose no more than two groups from the list below to which you would like to apply.

Which Boards would you like to apply for?

Orange Water and Sewer Authority Board of Directors: Eligible

Which Board is your First Choice? *

Orange Water and Sewer Authority (OWASA) Board of Directors

How did you find out about this opportunity? (select all that apply)

Internet

If you chose "Other" from the advertising opportunity listed above, please specify:

Interests & Experiences

What perspective(s) do you bring to the board(s), commission(s), committee(s) or task force(s) to which you are applying?

I moved to Chapel Hill in 2012 from Northern California, where I experienced many droughts and associated water-use regulations, and where I developed strong environmental impact concerns. As a result, I think I have a unique respect for the challenge of water distribution and viable energy management plans. I'm a science-minded, rational, engineer that makes data-driven decisions. I'm interested in volunteering and giving back to our great community.

<https://www.linkedin.com/in/michaelconwayprofile/>

Please provide a brief summary of any other relevant qualifications (skills, abilities, interests and/or experience) you bring.

I'm pretty good at analyzing a proposal or specification, breaking it down into pros and cons, ROI's, and or presenting it. I have private and public company Board-level experience, but nothing specific to public utilities. This is an interest of mine and I'm willing to dedicate time to learn and make viable contributions.

I've been active on our HOA (Chandler's Green) since 2012 and have developed a good rapport and understanding of the needs and expectations of the folks in my neighborhood. Being on the OWASA board would help me broaden my perspective while learning about the broader challenges of OWASA.

<https://www.linkedin.com/in/michaelconwayprofile/>

You may upload a supporting document (e.g., CV or resume). **Please be advised that any information submitted becomes a public record and may be searchable online.**

Demographics

The Town Council seeks to attract persons from diverse backgrounds and believes that childcare and transportation is a potential barrier for qualified and interested applicants. See the [Childcare and Transportation Assistance pilot](#) for further details. In order to consider this application and provide some balance to the various boards, this personal information is required:

Ethnicity *

Caucasian/Non-Hispanic

Gender *

Male

If other, please describe:

Please select your age from the following list. *

over 55

Software Engineering
Manager

Occupation

Are you a caregiver for or identify with a disability?

Yes No

Have you participated in the Peoples Academy?

Yes No

Are you a Town of Chapel Hill employee?

Yes No

Ethics Statement

ETHICS GUIDELINES FOR TOWN ADVISORY BOARDS AND COMMISSIONS

Members of advisory boards and commissions shall not discuss, advocate, or vote on any matter in which they have a conflict of interest or an interest which reasonably might appear to be in conflict with the concept of fairness in dealing with public business. A conflict of interest or a potential conflict occurs if a member has a separate, private, or monetary interest, either direct or indirect, in any issue or transaction under consideration. In addition, members of the Historic District Commission and Board of Adjustment, when these boards are hearing cases, serve as quasi-judicial bodies. Pursuant to State Statute 106A-388(e)(2), members of these boards “shall not participate in or vote on any quasi-judicial matter in a manner that would violate affected persons’ constitutional rights to an impartial decision maker. Impermissible violations of due process include, but are not limited to, a member having a fixed opinion prior to hearing the matter that is not susceptible to change, undisclosed ex parte communications, a close familial, business, or other associational relationship with an affected person, or a financial interest in the outcome of the matter.”

Any member who violates these Ethics Guidelines may be subject to removal from the board or commission. If the advisory board or commission member believes he/she has a conflict of interest then that member should ask the advisory board or commission to be recused from voting. The advisory board or commission should then vote on the question on whether or not to excuse the member making the request. In cases where the individual member or the advisory board or commission establishes a conflict of interest, then the advisory board or commission member shall remove themselves from the voting area. Any advisory board or commission member may seek the counsel of the Town Attorney on questions regarding the interpretation of these ethics guidelines or other conflict of interest matters. The interpretation may include a recommendation on whether or not the advisory board or commission member should excuse himself/herself from voting. The advisory board or commission member may request the Town Attorney respond in writing.

I Agree *

Applications will be kept on file from July 1st to June 30th of the same fiscal year. Please reapply each fiscal year if you are still interested in serving on an Advisory Board, Commission, Committee or Task Force and have not yet been appointed.

Profile

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I Agree

degorelick@unc.edu

Email Address

David

First Name

Gorelick

Middle Initial

Last Name

305 Crest Drive

Street Address

Suite or Apt

Chapel Hill

City

NC

State

27516

Postal Code

Primary Phone

Alternate Phone

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Orange Water and Sewer Authority Board of Directors: Eligible

Which Board is your First Choice? *

Orange Water and Sewer Authority (OWASA) Board of Directors

How did you find out about this opportunity? (select all that apply)

Internet

If you chose "Other" from the advertising opportunity listed above, please specify:

Interests & Experiences

What perspective(s) do you bring to the board(s), commission(s), committee(s) or task force(s) to which you are applying?

Given the opportunity, I would bring a unique community and professional perspective to the Orange Water and Sewer Authority (OWASA) Board of Directors. As a graduate student at UNC Chapel Hill (and formerly an undergraduate at UNC), I am able to provide insight to how UNC students – a large fraction of Chapel Hill residents and OWASA customers – view issues of water quality and supply; this perspective would be especially valuable to OWASA, as students are unlikely to have significant time or ability to personally voice thoughts or concerns about local water management. After living in Chapel Hill and Carrboro for almost 10 consecutive years, and experiencing two recent water emergencies, I also have a personal sense for the water supply challenges faced by our community. Finally, I have studied water supply and utility financial risk as a PhD student for almost six years, specifically studying impacts of long-term water infrastructure planning for OWASA and other utilities in the Research Triangle. I feel that my blend of water resources research experience, personal connection to UNC and the Chapel Hill community, and youth would be an invaluable asset to the OWASA Board of Directors across all of its financial, environmental, and community engagement responsibilities. Thank you for considering me for this position!

Please provide a brief summary of any other relevant qualifications (skills, abilities, interests and/or experience) you bring.

Since 2015, I have studied the water supply and financial risks faced by urban water utilities in the United States, specifically those of the Research Triangle, as a graduate student at UNC. This research has involved detailed computational modeling of the Orange Water and Sewer Authority (OWASA) water supply system and customer water demands from present day until 2060; as a result, I have a unique depth of understanding of the future challenges OWASA faces to provide safe, reliable water service, as well as clear insight into the potential long-term planning options that may help the utility accomplish this goal. In addition, I have periodically met with water managers at OWASA and other Triangle utilities over the last five years to share results and gather up-to-date information on the state of their systems. From these interactions, I have been able to establish and maintain a successful working relationship with OWASA staff that would ease my transition into and aid my effectiveness on the Board of Directors. I am also currently engaged in research for the Tampa Bay Water Authority of Florida, for which I have personally developed a model to forecast Tampa Bay Water's annual budget to investigate how environmental change, water demand growth, infrastructure investment, and water rate changes can be balanced to ensure future water supply reliability and affordability. Due to this, as well as my work in the Triangle, I have a comprehensive and actionable understanding of water utility budgeting and finance that would directly help me execute my duties as a Board member. Furthermore, I have experience directing and participating in decision-making at a "board" level through two years on the executive board of UNC's Science Policy Advocacy Group. With the above skills and experience, along with my personal interest in local public service, I believe I would effectively and eagerly serve the Chapel Hill community as a member of the OWASA Board of Directors.

[CV_2021_OWASA.pdf](#)

You may upload a supporting document (e.g., CV or resume). Please be advised that any information submitted becomes a public record and may be searchable online.

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Caucasian/Non-Hispanic

Gender *

Male

If other, please describe:

Please select your age from the following list. *

25-34

PhD Student _____
Occupation

Are you a caregiver for or identify with a disability?

Yes No

Have you participated in the Peoples Academy?

Yes No

Are you a Town of Chapel Hill employee?

Yes No

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David E. Gorelick

PhD Candidate and Graduate Research Assistant
[Center on Financial Risk in Environmental Systems](#)
Department of Environmental Sciences and Engineering (ESE)
Gillings School of Global Public Health
University of North Carolina at Chapel Hill (UNC Chapel Hill)
[Email](#) - [Website](#) - [LinkedIn](#) - [Twitter](#)

Education

- PhD** (2017-2021)
UNC Chapel Hill
Environmental Sciences and Engineering
Dissertation: “Joint Mitigation of Supply and Financial Risk in Regional Water Supply Management Under Uncertainty,” advised by Dr. Gregory Characklis
Inducted to UNC’s Graham Graduate and Professional Student Honor Society for outstanding service to the University and community while enrolled at UNC
- MS** (2015-2017)
UNC Chapel Hill
Environmental Sciences and Engineering
Thesis: “Integrating raw water transfers into an Eastern U.S. management context: a multi-objective analysis,” advised by Dr. Gregory Characklis
Impact Award Recipient of the UNC Graduate School for research contributing to “the educational, economic, physical, social or cultural well-being of NC citizens”
Inducted to Theta Chapter of Delta Omega Honorary Public Health Society
- BS, BA** (2011-2015)
UNC Chapel Hill
Environmental Science, Mathematics
Senior Thesis: “Racial disparities in municipal water and sewer access in western North Carolina,” advised by Dr. Jacqueline MacDonald Gibson
Graduated with Distinction and Highest Honors
Thesis named **Most Outstanding Environmental Research in the Class of ’15** of the UNC Curriculum for the Environment and Ecology

Relevant Professional Experience

Graduate Research Assistant (Aug. ’15 – Pres.)
[Center on Financial Risk in Environmental Systems](#), [Department of Environmental Sciences and Engineering](#)
Studying regional water supply and financial risk management for urban US water utilities, with specific focus on utilities of the NC Research Triangle and Tampa Bay, FL. Published multiple peer-reviewed articles on computational modeling of long-term water supply planning in the Research Triangle (see below for list). Research also includes periodic meetings with water managers from OWASA and other regional water utilities to share findings, receive feedback, and stay up-to-date with water utility financial and infrastructure planning. **Received 2018 Impact Award from the UNC Graduate School** for this work.

Instructor (Fall Semesters ’17 – ’19)
[ENVR 890: R for Researchers](#), Department of Environmental Sciences and Engineering
Created and instructed a graduate-level course at UNC on computer programming for water resources applications. Full responsibility for curriculum development, grading, and lectures. **Previously taught ENVR 890: MATLAB for Researchers.**

Teaching Assistant (Aug. '15 – May '20)

Department of Environmental Sciences and Engineering, UNC Chapel Hill

ENVR 755: Water Resources Engineering; ENVR 788: Environmental Financial Risk. Responsibilities included grading and guest lectures on research-related topics.

Graduate Representative (Aug. '20 – Pres.)

Environmental Affairs Committee, UNC Student Government Executive Branch

Provide planning support to members of the Committee. Interface with the Carolina Sustainability Council (advising the UNC Chancellor and Cabinet) to further goals of UNC's Three Zeros Initiative.

Co-President (Jun '20 – Pres.)

UNC Chapel Hill Science Policy Advocacy Group

Responsible for annual agenda and managing board. Activities include monthly professional development, [educational seminars and workshops for students](#), and [coordination of state and federal legislative advocacy](#) such as Congressional meetings with graduate students from NC. Developed and currently leading a science policy training series with over 150 participants from 16 NC universities. **Co-Founder of [North Carolina Students for Science Policy Coalition](#)**.

Policy Fellow (Apr. '19 – Mar. '20)

American Geophysical Union (AGU) Voices for Science Program

One-year fellowship to train scientists in effective communication and advocacy. Developed monthly outreach and training activities to foster connection between students at UNC and local legislators. Included visits to Congressional offices to advocate for AGU science priorities.

Student Advisor (Dec. '20 – Pres.)

Consortium of Universities for the Advancement of Hydrologic Science, National Science Foundation

Providing input on CUAHSI's 2022 Joint Hydrologic Sciences Meeting, program, and session topics.

Researcher (Summer '12)

Galapagos Science Center, San Cristobal Island, Galapagos Province, Ecuador

Investigation of water distribution system contamination and water quality of San Cristobal. Advised by UNC Professor Dr. Jill Stewart.

Relevant Research Publications

Gorelick, D.E., L. Lin, H.B. Zeff, Y. Kim, J. M. Vose, J. W. Coulston, D. N. Wear, L.E. Band, P. M. Reed, and G. W. Characklis (2020). "Accounting for adaptive water supply management when quantifying climate and landcover change vulnerability". *Water Resources Research*.

Gorelick, D. E., Zeff, H. B., Hughes, J., Eskaf, S., & Characklis, G. W. (2019). "Exploring Treatment and Capacity-Sharing Agreements Between Water Utilities". *Journal-American Water Works Association*.

Kern, J.D., **Gorelick, D.E.**, Characklis, G.W., and Macklin, C.M. (2019). "Multi-objective optimal siting of algal biofuel production with municipal wastewater treatment in watersheds with nutrient trading markets". *Journal of Water Resources Planning and Management*. 145(2).

Gorelick, D.E., Zeff, H.B., Characklis, G.W., and Reed, P.M. (2018). "Integrating raw water transfers into an eastern U.S. management context". *Journal of Water Resources Planning and Management*. 144(9).

Profile

Whenever possible, submit your application prior to the scheduled meeting of the affected advisory board so that they can consider all applications prior to making a recommendation to Council.

Public Records Statement

I acknowledge that all information submitted in this application becomes a public record and will be searchable online. The Town is not able to remove information from the public record once it has been posted.

I Agree

arthur.greenberg@duke.edu

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Arthur

First Name

Greenberg

Last Name

649 Wellington Drive

Street Address

Suite or Apt

Chapel Hill

City

NC

State

27514

Postal Code

Home: (919) 967-3324

Primary Phone

Alternate Phone

Residency within the Town limits is required for membership on most Council advisory bodies. Memberships of some committees and task forces may be composed of up to forty percent of non-Town residents.

What district do you live in? *

Chapel Hill Town limits (Purple)

[Please consult the town maps HERE if you are unsure.](#)

If you are a Chapel Hill Resident, How long have you lived here?

Greater than 10 years

The Council encourages you to visit a meeting of the group that you are interested in serving on. Please choose no more than two groups from the list below to which you would like to apply.

Which Boards would you like to apply for?

Orange Water and Sewer Authority Board of Directors: Eligible

Which Board is your First Choice? *

Orange Water and Sewer Authority (OWASA) Board of Directors

How did you find out about this opportunity? (select all that apply)

Newspaper

If you chose "Other" from the advertising opportunity listed above, please specify:

Interests & Experiences

What perspective(s) do you bring to the board(s), commission(s), committee(s) or task force(s) to which you are applying?

As president of the Coker Hills West Neighborhood Association, I had the opportunity to interact with OWASA during its recently completed replacement of our water main. This has afforded some insight into how OWASA communicates with residents and customers (generally well) and how it assures that contractors meet deadlines and construction standards (not so well). Like other Town residents, I was affected by the water main breaks in recent years that led to widespread boil water advisories and a near total collapse of the water supply. As a Board member, I would hope to work with OWASA's leadership to assure that advance planning for management of water service disruptions has improved to prevent recurrences of these events and to be sure that a disaster like Houston's could not happen here. Additional concerns include assuring that OWASA's rate structure better encourages water conservation and that OWASA appropriately supports residents who experience financial difficulties. The latter is particularly important during the present pandemic.

Please provide a brief summary of any other relevant qualifications (skills, abilities, interests and/or experience) you bring.

As a nephrologist and long-term Medical Director of a dialysis unit, I have familiarity with regulatory compliance and extensive experience with water purification standards for dialysis units. Standards for public water systems are certainly very different than those applicable to dialysis units, but this provides some basic understanding.

You may upload a supporting document (e.g., CV or resume). **Please be advised that any information submitted becomes a public record and may be searchable online.**

Demographics

The Town Council seeks to attract persons from diverse backgrounds and believes that childcare and transportation is a potential barrier for qualified and interested applicants. See the [Childcare and Transportation Assistance pilot](#) for further details. In order to consider this application and provide some balance to the various boards, this personal information is required:

Ethnicity *

Caucasian/Non-Hispanic

Gender *

Male

If other, please describe:

Please select your age from the following list. *

over 55

Physician (Retired)

Occupation

Are you a caregiver for or identify with a disability?

Yes No

Have you participated in the Peoples Academy?

Yes No

Are you a Town of Chapel Hill employee?

Yes No

Ethics Statement

ETHICS GUIDELINES FOR TOWN ADVISORY BOARDS AND COMMISSIONS

Members of advisory boards and commissions shall not discuss, advocate, or vote on any matter in which they have a conflict of interest or an interest which reasonably might appear to be in conflict with the concept of fairness in dealing with public business. A conflict of interest or a potential conflict occurs if a member has a separate, private, or monetary interest, either direct or indirect, in any issue or transaction under consideration. In addition, members of the Historic District Commission and Board of Adjustment, when these boards are hearing cases, serve as quasi-judicial bodies. Pursuant to State Statute 106A-388(e)(2), members of these boards “shall not participate in or vote on any quasi-judicial matter in a manner that would violate affected persons’ constitutional rights to an impartial decision maker. Impermissible violations of due process include, but are not limited to, a member having a fixed opinion prior to hearing the matter that is not susceptible to change, undisclosed ex parte communications, a close familial, business, or other associational relationship with an affected person, or a financial interest in the outcome of the matter.”

Any member who violates these Ethics Guidelines may be subject to removal from the board or commission. If the advisory board or commission member believes he/she has a conflict of interest then that member should ask the advisory board or commission to be recused from voting. The advisory board or commission should then vote on the question on whether or not to excuse the member making the request. In cases where the individual member or the advisory board or commission establishes a conflict of interest, then the advisory board or commission member shall remove themselves from the voting area. Any advisory board or commission member may seek the counsel of the Town Attorney on questions regarding the interpretation of these ethics guidelines or other conflict of interest matters. The interpretation may include a recommendation on whether or not the advisory board or commission member should excuse himself/herself from voting. The advisory board or commission member may request the Town Attorney respond in writing.

I Agree *

Applications will be kept on file from July 1st to June 30th of the same fiscal year. Please reapply each fiscal year if you are still interested in serving on an Advisory Board, Commission, Committee or Task Force and have not yet been appointed.

Curriculum Vitae and Bibliography

Arthur Greenberg, M.D.

April 2021

Business Address:

Division of Nephrology
Duke University Medical Center
2424 Erwin Road, Suite 605
Durham, NC 27705

Contact Address:

649 Wellington Drive
Chapel Hill, NC 27514

Primary Academic Appointment: Medicine

Rank: Professor of Medicine, Emeritus

Medical Licensure:

Board	Date	Number
National Board of Medical Examiners	1976	150539
Pennsylvania (inactive)	1976	MD-018354-E
North Carolina	1997	97-01377

Specialty certification and dates:

Internal Medicine	1978
Nephrology	1980

Place of Birth: New York, NY

Citizen of: USA

Education:	Place	Date	Degree
High School	New Rochelle H.S. New Rochelle, NY	1964-67	
College	M.I.T. Cambridge, MA	1967-71	S.B. (Chemistry)
Medical School	Washington University St. Louis, MO	1971-1975	M.D.

Scholarly societies:

Phi Lambda Upsilon	1970
Phi Beta Kappa	1971
Sigma Xi	1975
Alpha Omega Alpha	1975

Professional training and academic career:

Hospital of the University of Pennsylvania	1975-1976	Intern in Medicine
Hospital of the University of Pennsylvania	1976-1977	Junior Assistant Resident in Medicine
Hospital of the University of Pennsylvania	1977-1978	Senior Assistant Resident in Medicine
Hospital of the University of Pennsylvania	1978-1980	Nephrology Fellow
University of Pittsburgh	1980-1986	Assistant Professor
University of Pittsburgh	1986-1994	Associate Professor
University of Pittsburgh	1994-1997	Professor of Medicine
Duke University Medical Center	1997-2006	Clinical Professor of Medicine
Duke University Medical Center	2006-2014	Professor of Medicine
Duke University Medical Center	2014-	Professor of Medicine, Emeritus

Publications:

I. Refereed journals:

Burstein S, Zamosciany H, Co N, Adelson M, Prasad, DSM, Greenberg A and Gut M. Side-chain cleavage of cholesterol to C6 and C8 compounds by adrenal and testis tissue. *Biochem. Biophys. Acta.* 1971; 231-223.

Mitnick PD, Greenberg A, DeOreo PB, Weiner BM, Coffman TM, Walker BM, Agus ZS, Goldfarb S. Differing renal effects of two non-steroidal anti-inflammatory agents, indomethacin and oxaprozin (Wy 21743), in man. Localization of site action. *Clin. Pharmacol. Therap.* 1980; 28:680-689.

- Mitnick P, Greenberg A, Coffman T, Kelepouris E, Wolf CJ, Goldfarb S. Effects of two models of hypercalcemia on renal acid base metabolism. *Kidney Int.* 1982; 21:613-620.
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- Greenberg A. Acute renal failure due to perirenal hematoma complicating open renal biopsy. *J. Urology* 1984; 132:969-971.
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- Piraino BM, Rault R, Greenberg A, Dominguez JH, Wallia R, Chen T, Houck P, Segre GV, Puschett JB. Spontaneous hypercalcemia in dialysis patients: etiologic and therapeutic considerations. *Amer. J. Med.* 1986; 80:607-615.
- McGowan JA, Greenberg A. Cholesterol atheroembolic renal disease. *Am. J. Nephrology* 1986; 6:135-139.
- Greenberg A, Parkinson DK, Fetterolf DE, Ellis KJ, Wielopolski L, Vaswani AN, Cohn SH, Landrigan PJ, Puschett JB. Effects of elevated lead and cadmium burdens on renal function and calcium metabolism. *Arch. Environ. Health* 1986; 41:69-76.
- Wallia R, Greenberg A, Piraino B, Mitro R, Puschett JB. Serum electrolyte patterns in end-stage renal disease. *Am. J. Kidney Dis.* 1986; 8:98-104.
- Wielopolski L, Ellis, KJ, Vaswani AN, Cohn SH, Greenberg A, Puschett JB, Parkinson DK, Fetterolf DE, Landrigan PJ. In vivo bone lead measurements: a rapid monitoring method for cumulative lead exposure. *Am. J. Indust. Med.* 1986; 9:221-226.
- Pitts TO, Spero JA, Bontempo FA, Greenberg A. Acute renal failure due to high-grade obstruction following therapy with epsilon aminocaproic acid. *Am. J. Kidney Dis.* 1986;8:441-444.
- Gerhardt A, Greenberg A., Reilly JJ Jr., Van Thiel DH. Hypercalcemia, a complication of advanced chronic liver disease. *Arch. Internal Med.* 1987; 147:274-277.
- Greenberg A, Egel JW, Thompson ME, Hardesty RL, Griffith BP, Bahnson HT, Bernstein RL, Hastillo A, Hess ML, Puschett JB. Early and late forms of cyclosporine nephrotoxicity: studies in cardiac transplant recipients. *Am. J. Kidney Dis.* 1987; 9:12-22.
- Puschett JB, Greenberg A, Mitro R, Piraino B, Wallia R. Variant of Bartter's syndrome with a distal tubular rather than loop of Henle defect. *Nephron* 1988; 50:205-211.

- Lupinacci L, Palomino C, Greenberg A, Puschett JB. Chronic effects of nitrendipine on renal hemodynamics and tubular transport. *Clin. Pharmacol. Therap.* 1988; 43:6-15.
- Pitts TO, Piraino BH, Mitro R, Chen TC, Segre GV, Greenberg A, Puschett JB. Hyperparathyroidism and 1,25-Dihydroxyvitamin D deficiency in mild, moderate, and severe renal failure. *J. Clin. Metab.* 1988; 67:876-881.
- Aujla NS, Greenberg A, Banner BF, Johnston JR, Tzakis AG. Atheroembolic involvement of renal allografts. *Am. J. Kidney Dis.* 1989; 13:329-332.
- Greenberg A, Piraino B, Bruns FJ. Hypercalcemia in patients with advanced chronic renal failure not yet requiring dialysis. *Am. J. Nephrol.* 1989; 9:205-210.
- Arthur S, Greenberg A. Hyperkalemia associated with intravenous labetalol therapy for acute hypertension in renal transplant recipients. *Clinical Nephrology* 1990; 33:269-271.
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- Shaikh ZA, Ellis KJ, Subramanian KS, Greenberg A. Biological monitoring for occupational cadmium exposure: the urinary metallothionein. *Toxicology* 1990; 63:53-62.
- Ghabra N, Piraino B, Greenberg A, Banner B. Resolution of Cirrhotic Glomerulonephritis following successful liver transplantation. *Clin. Nephrology* 1991; 35:6-9.
- Greenberg A, Bernardini J, Piraino BM, Johnston JR, Perlmutter JA. Hemoperitoneum complicating chronic peritoneal dialysis. Single center experience and literature review. *Am. Jour. Kidney Dis.* 1992; 19:252-256.
- Relton S, Greenberg A, Palevsky PM. Dialysate and blood flow dependence of diffusive solute clearance during CVVHD. *Am. Soc. Artif. Intern. Org. J.* 1992; 38:M691-M696.
- Quadri, KHM, Bernardini J, Greenberg A, Laifer S, Syed A, Holley JL. Assessment of renal function during pregnancy using a random urine protein to creatinine ration and Cockcroft-Gault Formula. *Am. Jour. Kidney Dis.* 1994; 24:416-420.
- Palevsky PM, Burr R, Moreland L, Tokiwa Y, Greenberg A. Failure of low-molecular weight dextran to prevent clotting during continuous renal replacement therapy. *ASAIO Journal.* 1995;41:847-849.
- Holley JL, Bernardini J, Quadri KHM, Greenberg A, Laifer SA. Pregnancy outcomes in a prospective matched control study of pregnancy and renal diseases. *Clin Nephrology.* 1996;45:77-82.
- Palevsky PM, Bhagrath R, Greenberg A. Hyponatremia in hospitalized patients. *Ann. Intern. Med.* 1996;124:197-203.

Johnson JP, Johnston JR, Flick R, Singh A, Angus D, Greenberg A. Acute renal failure in recipients of organ transplantation and non-transplantation patients: comparison of characteristics and mortality. *Renal Failure* 1997;19:459-473.

Greenberg A, Bastacky SI, Iqbal A, Borochoviz D, Johnson JP. Focal segmental glomerulosclerosis associated with nephrotic syndrome in cholesterol atheroembolism: clinicopathologic correlations. *Am. Jour. Kidney Dis.* 1997;29:334-344.

Acker CG, Johnson JP, Palevsky PM, Greenberg A. Hyperkalemia in hospitalized patients: etiology, adequacy of treatment, and results of an attempt to improve physician compliance with published therapy guidelines. *Arch. Intern. Med.* 1998;158:917-924.

Acker CG, Singh AR, Flick RP, Bernardini J, Greenberg A, Johnson. A trial of thyroxine in acute renal failure. *Kidney Int.*, 2000;57:293-298.

Prasad GVR, Palevsky P, Burr R, Lesko JM, Gupta B, Greenberg A. Factors affecting system clotting in continuous renal replacement therapy: results of a randomized, controlled trial. *Clin. Nephrology*, 2000;53:55-60.

Abidi SM, Khan A, Fried LF, Chelluri L, Bowles S, Greenberg A. Factors influencing function of temporary dialysis catheters. *Clin. Nephrology*, 2000;53:199-205

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Lehrich RW, Rocha PN, Reinsmoen N, Greenberg A, Butterly DW, Howell DN, Smith SR. Intravenous immunoglobulin and plasmapheresis in acute humoral rejection: experience in renal allograft transplantation. *Human Immunology* 2005;66:350-358.

Steen VD, Syed A, Johnson JP, Greenberg A, Medsger TA. Kidney disease other than renal crisis in patients with diffuse scleroderma. *J. Rheumatol.* 2005;32:649-655.

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- Lehrich RW, Greenberg A. Hyponatremia and the use of vasopressin receptor antagonists in critically ill patients. *J Intensive Care Med.* 2012;27:207-218. PMID: 21571754
- Lehrich RW, Ortiz-Melo DI, Patel MB, Greenberg A. Role of vaptans in the management of hyponatremia. *Am. J. Kidney Dis.* 2013;62:364-376. PMID: 23725974
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- Verbalis JG, Greenberg A, Burst V, Haymann JP, Johannsson G, Peri A, Poch E, Chiodo JA III, Dave J. Diagnosing and treating the syndrome of inappropriate antidiuretic hormone secretion. *Am. J. Med.* 2016;129:537.e9-e537.e23, doi:10.1016/j.amjmed.2015.11.005
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- Seay NW, Lehrich RW, Greenberg A. Diagnosis and management of disorders of body tonicity—hyponatremia and hypernatremia: core curriculum 2020. *Am. J. Kidney Dis.* 2020;75:272-286.

2. Non-refereed publications:

- Egel J, Greenberg A, Thompson ME, Hardesty RL, Griffith BP, Bahnson HT, Bernstein RL, Puschett JB. Renal failure in heart transplant patients receiving cyclosporin A. *Transplantation Proceedings* 1983; 15(Suppl. 1):2706-2707.
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- Puschett JB, Palomino C, Wallia R, Mitro R, Greenberg A. The acute effects of nitrendipine on the human kidney. *J. Cardiovasc. Pharm.* 1987; 9(Suppl. 4):S169-S173.
- Greenberg A. Nephrotoxicity of cyclosporine in cardiac transplantation. *Cardiovasc Clinics* 1990;20:189-198.
- Puschett JB, Greenberg A, Holley J, McCauley J. The spectrum of ciclosporin nephrotoxicity. *Am. J. Nephrol.* 1990; 10:296-309.
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Greenberg A. Case 24-1998: cholesterol atheroembolism. (Letter). *New Engl. J. Med.* 1998;339:1857-1858.

3. Chapters in books:

Greenberg A, Goldfarb S. Acid-base disturbances in the surgical patient. In: Brown FH, Goldmann DR, et. al., ed. *Medical Care of the Surgical Patient*. Philadelphia: J.B. Lippincott; 1982:278-296.

Puschett JB, Greenberg A. Treatment of edematous states: In Suki WM, Massry S, ed. *Therapy of Renal Disease and Related Disorders*. Boston: Martinus Nijhoff; 1984:31-45.

Greenberg A, Wallia R, Puschett JB. Combined effects of bumetanide and metolazone in normal human subjects. In: Puschett, JB, Greenberg A. (Editors). *Diuretics: Chemistry, Pharmacology and Clinical Applications*. New York: Elsevier; 1984:305-309.

Greenberg A. Diuretic therapy in the patient with edema/ascites associated with hepatic disease. In: Puschett JB, Greenberg A. (Editors). *The Diuretic Manual*. New York: Elsevier; 1985:27-36.

Greenberg A. Diuretics in the treatment of congestive heart failure. In: Puschett JB, Greenberg A. (Editors). *The Diuretic Manual*. New York: Elsevier; 1985:37-44.

Greenberg A. Disorders of body water metabolism. In: Puschett JB, Greenberg A. (Editors). *Disorders of Fluid and Electrolyte Balance*. New York: Churchill-Livingstone; 1985:113-136.

Greenberg A. Disorders of body volume status. In : Puschett JB, Greenberg A. *Disorders of Fluid and Electrolyte Balance*. New York: Churchill-Livingstone; 1985:137-149.

Greenberg A, Pitts TO, Piraino BH. Fluid and electrolyte therapy in head and neck surgery. In: English, GM, ed. *Otolaryngology*. Philadelphia: J.B. Lippincott; 1986: Volume 5, Chapter 19, 1-24.

Greenberg A. "Kidney involvement in systemic lupus erythematosus." Pittsburgh: Lupus Foundation of America, Inc., Western Pennsylvania Chapter Inc., 1986 (guide for patients).

Greenberg A, Palomino C, Puschett JB. Acute renal transport and hemodynamic effects of nitrendipine in man. In: Puschett JB, Greenberg A. (Editors). *Diuretics II: Chemistry, Pharmacology & Clinical Applications*. New York: Elsevier; 1987:471-478.

Greenberg A, Thompson ME. Cyclosporine-related hypertension and renal failure after cardiac allografting. In: Gallucci V, Bortolotti U, Faggian G, Mazzucco A. *Heart-Lung, Liver, and Pancreas Transplantation*. Firenze: USES Edizioni Scientifiche; 1988:175-184.

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4. Books:

Puschett JB, Greenberg A (Editors). *Diuretics: Chemistry, Pharmacology, and Clinical Applications.* New York, Elsevier, 1984.

Puschett JB, Greenberg A. (Editors). *Disorders of Fluid and Electrolyte Balance.* New York, Churchill-Livingstone, 1985.

Puschett JB, Greenberg A. (Editors). *The Diuretic Manual.* New York, Elsevier, 1985.

Puschett JB, Greenberg A. (Editors). *Diuretics II: Chemistry, Pharmacology, and Clinical Applications.* New York, Elsevier, 1987.

Puschett JB, Greenberg A. (Editors). *Diuretics III: Chemistry, Pharmacology, and Clinical Applications.* New York, Elsevier, 1990.

Puschett JB, Greenberg A. (Editors). *Diuretics IV: Chemistry, Pharmacology, and Clinical Applications.* Amsterdam, Elsevier, 1993.

Greenberg A, Cheung AK, Coffman TM, Falk RJ, Jennette JC. (Editors). *The National Kidney Foundation Primer on Kidney Diseases.* San Diego, Academic Press, 1994.

Greenberg A, Palevsky PM. (Guest Editors) Electrolyte Disorders. *Seminars in Nephrology.* Philadelphia, Saunders, January 1998.

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Greenberg A. (Editor). *National Kidney Foundation Slide Atlas of Kidney Diseases.* New York: National Kidney Foundation, 1997.

Greenberg A, Cheung AK, Coffman TM, Falk RJ, Jennette JC. (Editors). *Tratado de Enfermedades Renales.* (Spanish edition of *The National Kidney Foundation Primer on Kidney Diseases*). Segunda edición, 1999. Madrid, Harcourt Brace de Espana.

Greenberg A, Cheung AK, Coffman TM, Falk RJ, Jennette JC. (Editors). *The National Kidney Foundation Primer on Kidney Diseases.* Edition 3. San Diego, Academic Press, 2001.

Greenberg A, Cheung AK, Coffman TM, Falk RJ, Jennette JC. (Editors). *The National Kidney Foundation Primer on Kidney Diseases.* (Korean Translation) Edition 3, 2002. Seoul, ShinHeung MedScience.

Greenberg A, Cheung AK, Coffman TM, Falk RJ, Jennette JC. (Editors). *The National Kidney Foundation Primer on Kidney Diseases*. Edition 4. Philadelphia, Saunders, 2005.

Greenberg A, Cheung AK, Coffman TM, Falk RJ, Jennette JC. (Editors). *The National Kidney Foundation Primer on Kidney Diseases*. Edition 5. Philadelphia, Saunders, 2009.

Professional awards and special recognitions:

1967	New York State Regents Scholarship
1971	New York State Regents Scholarship for Medical Studies
1975	C.V. Mosby Book Award, Washington University
1994	Distinguished Service Award, National Kidney Foundation
1997	Gift of Life Medical Award, National Kidney Foundation of Western Pennsylvania
1997	President's Award, National Kidney Foundation
2012	Education Award, Division of Nephrology, Department of Medicine DUMC

Organizations and participation:

1977-1979	Associate - American College of Physicians
1979-1985	Member - American College of Physicians
1980-	American Society of Nephrology International Society of Nephrology
1980-1997	Pennsylvania Society of Nephrology
1985-	Fellow - American College of Physicians
1986-1997	Medical Advisory Committee, Lupus Foundation of America, Western Pennsylvania Chapter
1987-1989	American Heart Association, Western Pennsylvania Chapter, grant review
1990-	National Kidney Foundation
1990-1992	National Kidney Foundation, Western Pennsylvania Chapter, grant review
1990-1993	Executive Council and Coordinating Councils, End Stage Renal Disease Network 4
1990-1995	American Society of Nephrology, Public Policy Network
1993	American Society of Nephrology, National Meeting, Abstract Review
1994	American Society of Nephrology, National Meeting, Abstract Review
1994-1995	Associate Editor, <i>The Kidney</i> . NKF Newsletter under development.
1994-1997	Association of Subspecialty Professors
1995-1996	National Kidney Foundation, Program Committee, 1996 Spring Clinical Meetings
1996	American Society of Nephrology, National Meeting, Abstract Review
1996-2003	Editorial Board, <i>Seminars in Nephrology</i>
1997-2001	Editorial Board, <i>American Journal of Kidney Diseases</i>
1998-2003	Associate Editor, <i>Advances in Renal Replacement Therapy</i>
1998	American Society of Nephrology, National Meeting, Abstract Review
1998-1999	Data Committee, Renal Disease Network 6
2000-2014	American Society of Transplantation
2003-2004	Executive Committee, NKF K/DOQI Learning System
2004-2006	Renal Physicians Association

2005-2008 Internal Medicine In-Training Examination Question-Writing Committee
2006 American Society of Nephrology, National Meeting, Abstract Review, Invited Speaker
2007-2017 Editorial Board, *Journal of the American Society of Nephrology*
2007 American Society of Nephrology, National Meeting, Invited Speaker
2011 American Society of Nephrology, National Meeting, Invited Speaker

At the University of Pittsburgh

Hospital Appointments:

1980-1997	University of Pittsburgh Medical Center	Attending Physician
1980-1997	Veterans Affairs Medical Center, Pittsburgh, PA	Attending Physician
1983-1990	Shadyside Hospital, Pittsburgh, PA	Consulting Physician
1983-1988	Medical Research Center Hospital, Brookhaven National Laboratory	Visiting Clinician

At Duke University Medical Center

Hospital Appointment:

1997-2014	Duke University Medical Center	Attending Physician
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At Durham Veterans Administration Medical Center

Hospital Appointment:

7/2015-6/2019	Durham Veterans Administration Medical Center	Attending Physician
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At Hampton VA Veterans Administration Medical Center (Locum Tenens)

Hospital Appointment:

9/2016-1/2017	Hampton Veterans Administration Medical Center	Attending Physician
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Clinical Activity:

Nephrology attending (clinic 4 half-days per week, dialysis unit, inpatient)

At Blue Ridge Medical Center, Morganton, NC (Locum Tenens)

6/2017-9/2019 Blue Ridge Medical Center Attending Physician

Participation in academic and administrative activities of the University and Medical Center:

At the Hospital of the University of Pennsylvania

1977-1978 Secretary-Treasurer, House Staff Association

At the University of Pittsburgh

1980-1982 Care Evaluation Committee, Presbyterian University Hospital
1980-1997 Director, Renal Consultation Service, Presbyterian University Hospital
1981-1982 Nephrology/Transplant Task Force, Presbyterian University Hospital
1983-1990 Course Director, Renal Block, Integrated 2nd Year Curriculum
1986-1991 Associate Course Director, Integrated 2nd Year Curriculum
1991-1993 Course Director, Integrated 2nd Year Curriculum
1986-1992 Clinical Research Unit Advisory Committee
1986-1990 Medical School Admissions Committee
1987-1997 Director, Nephrology Training Program, Renal-Electrolyte Division
1989-1991 School of Medicine Curriculum Review, Member, Goals and Integration Task Force
1990-1991 School of Medicine Curriculum Review, Chair, Renal Organ System Block
1990-1993 Acting Chief, Renal-Electrolyte Division, Department of Medicine
1993-1997 Associate Chief, Renal-Electrolyte Division, Department of Medicine
1993-1997 Allied Health Professional Review Committee
1993-1996 Clinical Care Committee, Presbyterian University Hospital
1994-1995 University of Pittsburgh Medical Center Medical Records Committee
1996-1997 Standing Committee for Non-Tenured Faculty Promotions and Appointments

At Duke University Medical Center

1997-2005 Co-Medical Director, Gambro Healthcare Dialysis Unit(s), Durham
2005-2010 Co-Medical Director, DaVita Dialysis Units, Durham
2010-2011 Medical Director, DaVita Durham Dialysis Unit
2012-2013 Medical Director, DaVita Durham at Home Dialysis Unit
2013-2014 Medical Director, DaVita Durham West Dialysis Unit