

Greg Cronin

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Education

In progress	Non-degree	CU Denver	Music and Entertainment Industries Studies
1997-1998	Post. Doc.	U. Colorado – Boulder	Limnology
1995-1997	Post. Doc.	U. Notre Dame	Aquatic Ecology
1994	Ph.D.	U. of North Carolina – Chapel Hill	Marine Science
1989	B.A.	U. of Kansas	Biochemistry and Chemistry

Professional Experience

2005-2018	Applied Ecologist, Associate Professor of Integrative Biology/Sustainability, CU Denver
2012-2018	President/Founder, Yon Sel Lanmou (means One Love in Haitian Kreyol) 501(c)3, http://yonsellanmou.org/
2014-2018	Adjunct Professor, Centre de Formation et de Développement Économique (CFDE University), Port au Prince, Haiti
2013	Ecologist, FoProBiM, Ecological Assessment in Caracol, Haiti
2008-2016	Bass/Ukulele, Mute Man's Microphone, Denver band encouraging social justice, peace, and sustainability by giving a voice to those who others would silence
2005-2006	Senior Postdoctoral Fellow, Smithsonian Marine Station at Fort Pierce, FL
1998-2005	Applied Ecologist, Assistant Professor of Biology, CU Denver
1998	Resource Person for Conservation Biology, Organization for Tropical Studies, Costa Rica
1997-1998	Visiting Fellow, Cooperative Institute for Research in Environmental Sciences (CIRES), Univ. of Colorado at Boulder/NOAA
1996-1997	Concurrent Assistant Professor, U. Notre Dame
1993	Student, Tropical Biology, Organization for Tropical Studies, Costa Rica
1993	Teaching Assistant, Marine Chemical Ecology, UNC-CH
1992	Research Assistant, Marine Larval Chemical Ecology, National Undersea Research Center
1990-1991	Scientist, Marine Secondary Metabolites, Scripps Inst. of Oceanography Research Cruise
1989-1994	Research Assistant, Marine Ecology, UNC-Chapel Hill
1989	Teaching Assistant, Marine Sciences, UNC-Chapel Hill
1988-1989	Research Assistant, Plant Physiological Ecology, Univ. Kansas
1988	Research Assistant, Biochemistry and Toxicology, Univ. Kansas

1987-1989 Lab Instructor, Dept. of Chemistry, Univ. Kansas

Peer Reviewed Publications, Exhibitions, Performances

(* indicates student mentored by Greg Cronin, superscript number is the number of times the paper was cited in indexed literature as of 2015, indexed and non-indexed PDF's are here:

<https://ucdenver.academia.edu/GregCronin>)

- In review by Hollmann, R., Cronin, G., Brett, J., Sawyer, T., and Sawyer, J.D. An Aquaponics Life
coauthors Cycle Assessment: Evaluating an Innovative Method for Growing Local Lettuce and
Fish.
- In review **Cronin, G.**, Applied Ecology Explained, peer-reviewed journal.
- 2016 Rewarding Transdisciplinary Scholarship in Higher Education. in Transdisciplinary
Education and Research, A. Ertas and B. Nicolescu, eds. ATLAS Publications, pp. 1-26.
*Retracted because of a libelous letter sent by Profs. Swallow and Tomback to the journal editor.
Page proofs available upon request.*
- 2016 "A Remarkable Life", feature film, I play a credited role of a patron of the Museum of
Nature and Science, in a scene that covers the creationist vs. evolutionist debate, Denver.
- 2015 **Cronin, G.** Rewarding Transdisciplinary Scholarship in Higher Education.
Transdisciplinary Journal of Engineering & Science, 6, 23-39. *An important paper about rewarding
non-traditional scholarship and modern missions of universities. Retracted because of a libelous letter sent by Profs.
Swallow and Tomback to the journal editor. Available upon request.*
- 2015 Vilaj Mozaik Documentary and Performance by Haitian Humanitarian and Musician, Mona Augustin, Cronin,
G., Schneider, C. , CU Denver Live! and MSU Denver
- 2014 **Cronin, G.** Transdisciplinary scholarship: Integrating Boyer's Model of Scholarship with
Transdisciplinary Research. *Transdisciplinary Journal of Engineering & Science*, 5, 14-20.
Defined transdisciplinary scholarship.
- 2008- Some who focus solely on peer-reviewed publications have expressed concern about this break in publications.
2013 During this period I focused on applied contributions to CU Denver's Strategic Plan 2008-2020. See
accomplishments in other sections of scholarly accomplishments, such as 1st aquaponic system in a US jail,
90,000 hectare marine park in Haiti, a life-saving PSA video, legislation to ban microbeads in Colorado,
legislation to allow Denverites to grow their own food, reducing carbon footprint of CU Denver, and
founding of Yon Sel Lanmou 501(c)3.
- 2007 ⁶Schlacher T.* and **G. Cronin**. A trophic cascade in a macrophyte-based food web at the
land-water ecotone. *Ecological Research*, 22: 749-755. *H1: Predators will reduce grazing pressure
on water lilies.*
- 2007 ¹⁹**Cronin, G.** J. H. McCutchan, J. Pitlick, and W.M. Lewis, Jr. Use of Shields stress to
reconstruct and forecast changes in river metabolism, *Freshwater Biology* 52: 1587-1601.
*H1: Discharge affects stream metabolism by mobilizing the bed. Relationships can reconstruct or predict changes in
stream metabolism.*
- 2006 ⁴³**Cronin, G.**, W.M. Lewis, Jr., and MA Scheisher*. Influence of freshwater macrophytes
on the littoral ecosystem structure and function of a young Colorado reservoir *Aquatic
Botany*, 85: 37-43. *H1: macrophytes enhance the structure and function of littoral ecosystems.*

- 2005 ³⁵Stearns, M*, J. A. Tindall, **G. Cronin**, M. J. Friedel and E. Berquist. Effects of Coal-Bed Methane Discharge Waters on the Vegetation and Soil Ecosystem in Powder River Basin, Wyoming, *Water, Air, & Soil Pollution*, 168: 33-57. *H1: CBM discharge waters will alter ecosystem structure and function.*
- 2003 ¹⁰⁹**Cronin G**, and D. M. Lodge. Effects of light and nutrient availability on the growth, allocation, carbon/nutrient balance, phenolic chemistry, and resistance to herbivory of two freshwater macrophytes. *Oecologia* 137: 32-41. *H1: Light and nutrient availability will affect plant-herbivore interactions.*
- 2002 ⁸⁰**Cronin, G.** David M. Lodge, M. E. Hay, M. Miller, A. M. Hill, T. Horvath, R. C. Bolser, N. Lindquist, and M. Wahl. Crayfish feeding preferences for freshwater macrophytes: the influence of plant structure and chemistry. *J. Crustacean Biology*. 22: 708-718. *H1: Crayfish feeding is affected by plant traits.*
- 2001 ⁴¹Dorn, N. J.*, **Cronin, G**, Lodge D.M. Feeding preferences and performance of an aquatic lepidopteran on aquatic macrophytes: Plant hosts as food and habitat. *Oecologia* 128:406-415. *H1: Caterpillar feeding and performance is affected by plant traits.*
- 2000 ⁸⁴Smith, L.K., W.M. Lewis, Jr., J.P. Chanton, **G. Cronin**, and S.K. Hamilton. Methane emissions from the Orinoco River Floodplain, Venezuela. *Biogeochemistry* 51: 113-140. *H1: Aquatic habitats are a significant source of biogenic methane, an important greenhouse gas.*
- 1999 ²⁷**Cronin, G.**, T. Schlacher*, D. M Lodge, and E. L. Siska*. Intraspecific variation in feeding preference and performance of *Galerucella nymphaeae* (Chrysomelidae: Coleoptera) on aquatic macrophytes. *J. North American Benthological Society* 18:391-405. *H1: Beetle feeding and performance differs among populations.*
- 1998 ³²**Cronin, G.** Between-species and temporal variation in acacia-ant-herbivore interactions. *Biotropica*. 30: 135-139. *H1: Interspecific and temporal variation exists among acacia-ants.*
- 1998 ³⁹**Cronin, G**, K. D. Wissing*, and D. M. Lodge. Comparative feeding selectivity of herbivorous insects on water lilies: Aquatic vs. semi-terrestrial insects and submersed vs. floating leaves. *Freshwater Biology* 39: 243-257 *H1: Aquatic and semi-terrestrial insects have different feeding behaviors.*
- 1997 ⁰**Cronin, G.** Native Insect is Purple Loosestrife Biocontrol Candidate. *Restoration and Management Notes*. Summer. *I discovered a native beetle that fed on purple loosestrife, and suggested application in biocontrol.*
- 1997 ⁸⁰**Cronin, G.**, V. J. Paul, M. E. Hay, and W. Fenical. Are tropical herbivores more resistant than temperate herbivores to seaweed chemical defenses? Diterpenoid metabolites from *Dictyota acutiloba* as feeding deterrents for tropical versus temperate fishes and urchins. *J. Chemical Ecology* 23: 289-302. *H1: There is geographic variation in the chemical ecology of Dictyota - herbivore interactions.*
- 1996 ¹⁸⁴**Cronin, G.** and M. E. Hay. Seaweed-herbivore interactions depend on recent history of both the plant and animal. *Ecology* 77: 1531-1543. *H1: Recent history influences seaweed-herbivore interactions.*
- 1996 ¹⁹⁴**Cronin, G.** and M. E. Hay. Induction of seaweed chemical defenses by amphipod grazing. *Ecology* 77:2287-2301. *H1: Grazing damage will induce higher levels of chemical defenses in Dictyota menstrualis.*

- 1996 ¹⁴⁰**Cronin, G.** and M. E. Hay. Within-plant variation in seaweed palatability and chemical defenses: Optimal defense theory versus the growth-differentiation balance hypothesis. *Oecologia* 105: 361-368. *H1: There is within-plant variation in palatability and chemical defenses.*
- 1996 ²³**Cronin, G.** and M. E. Hay. Chemical defenses, protein content, and susceptibility to herbivory of diploid vs. haploid stages of the isomorphic brown alga *Dictyota ciliolata* (Phaeophyta). *Botanica Marina* 39: 395-399. *H1: Haploid and diploid stages of Dictyota ciliolata are ecologically different.*
- 1996 ¹²⁹**Cronin, G.** and M. E. Hay. Effects of light and nutrient availability on the growth, secondary chemistry, and resistance to herbivory of two brown seaweeds. *Oikos* 77:93-106. *H1: Light and nutrient availability will affect plant-herbivore interactions.*
- 1996 ¹⁸Hardt, I., W. Fenical, **G. Cronin**, and M. E. Hay. New feeding deterrents from the tropical brown alga *Dictyota acutiloba*. *Phytochemistry* 43: 71-73. *H1: D. acutiloba contains secondary metabolites.*
- 1996 ⁵⁹Howard, J. J., M. L. Henneman, **G. Cronin**, J. A. Fox, and G. Hormiga. Conditioning of scouts and recruits during foraging by a leafcutting ant (*Atta columbica*). *Animal Behaviour* 52: 299-306. *H1: There is variation in Atta foraging among resources.*
- 1995 ⁴⁷**Cronin, G.** M. E. Hay, W. Fenical, and N. Lindquist. Distribution, density, and sequestration of host chemical defenses by the specialist nudibranch *Tritonia hamnerorum* found at high densities on the sea fan *Gorgonia ventalina*. *Marine Ecology Progress Series* 119:177-189. *H1: Chemical and predator-mediation of a specialized host-predator relationship.*
- 1995 ⁶⁹**Cronin, G.** N. Lindquist, M. E. Hay, and W. Fenical. Effects of storage and extraction procedures on yields of lipophilic metabolites from the brown seaweeds *Dictyota ciliolata* and *D. menstrualis*. *Marine Ecology Progress Series* 119:265-273. *H1: There is an optimal way to store and extract 2 seaweeds.*

Peer Reviewed Book Chapter

- 2001 ¹²⁷**Cronin, G.** Resource allocation in seaweeds and marine invertebrates: Chemical defense patterns in relation to defense theories. In: J.B McClintock and B.J. Baker (eds.) *Marine Chemical Ecology*. CRC Press. 325-353. *Integrated chemical defense theory with Grime's plant strategies. My most significant contribution to chemical ecology.*
- 1998 ⁴⁵**Cronin G.** Influence of macrophyte structure, nutritive value, and chemistry on the feeding choices of a generalist crayfish. In: Jeppesen, E, Sondergaard, M, Sondergaard, M., and Christoffersen, K (eds.) *The structuring role of submerged macrophytes in lakes*. Springer-Verlag. Vol. 131, pp. 307-317. *H1: Crayfish feeding is affected by plant traits.*
- 1998 ¹⁶³Lodge, D.M., **G. Cronin**, E. Van Donk, and A.J. Froelich*. Impact of herbivory on plant standing crop: Comparisons among biomes, between vascular and nonvascular plants, and among freshwater herbivore taxa. In: Jeppesen, E, Sondergaard, Ma., Sondergaard, Mo., and Christoffersen, K (eds.) *The structuring role of submerged macrophytes in lakes*. Springer Verlag. Vol. 131, pp. 149 174. *Integrated plant-herbivore theory of terrestrial, freshwater, and marine ecosystems.*

Grants

- 2017-2020 Recording Studio and Music School for Yon Sel Lanmou, Zale Foundation, \$35,000 awarded
- 2015 FEED HAITI (Flowing Edible Ecosystem Development, Haiti Aquaponic International Transdisciplinary Initiative), W.K. Kellogg Foundation, \$80,000, not funded
- 2015 HEAD START @ CU Denver (Helping Empower Ayiti Development: Scholarly Transdisciplinary Art, Research, and Training at CU Denver, University of Colorado Diversity and Excellence Grant, \$3000 not funded
- 2015 Documentary and performance by Haitian humanitarian and musician, Mona Augustin, CU Denver Live! and MSU Denver, \$2000 funded
- 2015 FEED HAITI (Flowing Edible Ecosystem Development, Haiti Aquaponic International Transdisciplinary Initiative). Feed the Future West/USAID, \$1,305,459, not funded.
- 2015 Aquaponic Farming Near 3 Bays Marine Park, w/ Jean Wiener (PI), The Nature Conservancy, ~\$200,000, not funded
- 2015 Vilaj Mozayik, Yon Sel Lanmou 501(c)3, \$10,000 funded.
- 2014 FEED HAITI (Flowing Edible Ecosystem Development, Haiti Aquaponic International Transdisciplinary Initiative), USAID, \$600,000, not funded.
- 2014 Yon Sel Lanmou Vetiver System, USAID, \$99,500, not funded.
- 2014 Royalty Free Haiti, Yon Sel Lanmou 501(c)3, \$11,000 funded.
- 2013 HEAD START @ CU Denver (Helping Empower Ayiti Development: Scholarly Transdisciplinary Art, Research, and Training at CU Denver, University of Colorado Diversity and Excellence Grant, \$3000, not funded.
- 2012 Memorial bench to honor Wangari Maathai. Sustainable Campus Program. Auraria, \$3,000 funded
- 2012 Haitian Revolution, Auraria Offices of Student Life and MSU Denver Department of Africana Studies, \$3500 funded.
- 2011 Aquaponics: an agricultural technology with a climate-change buffer. USAID, \$100,061, not funded.
- 2011 Aquaponic Systems as 'Enemy-Free Space', Gates Grand Challenge, \$100,000, not funded.
- 2010 NSF BREAD, FEED HAITI (Flowing Edible Ecosystem Development, Haiti Aquaponic International Transdisciplinary Initiative), \$400,000 requested, not funded.
- 2010 Revegetation of Petionville IDP Camp with Vetiver Grass. J/P Haiti Relief Organization and Catholic Relief Services. ~\$2,000 funded.
- 2010 International Aquaponic and Tilapia Workshop Travel Award. CLAS Dean's Fund for Excellence and Dept. of Integrative Biology. \$2,300 funded.
- 2005 Interspecific Patterns of Resource Allocation Among Seaweed Growth, Chemical Defense, and Stress Tolerance, Smithsonian Institution, \$32,000 funded.
- 2004 Regional Cumulative Effects Assessment: A Coordinated and Comprehensive GIS-Based Approach. (w/ Lynn Johnson (PI) et al.), CDOT, \$200,000 funded.

- 2004 CAREER: Ecological Impacts of Damming, Diverting, and Polluting Western Rivers, \$630,000, NSF, not funded.
- 2004 Collaborative Research: Hydrogeomorphic Controls on Ecosystem Processes in Two Western Rivers (w/ WM Lewis and J Pitlick), \$130,000, NSF, not funded.
- 2004 A University Course for Aquatic Resource Managers, Western Water Assessment, \$24,000, not funded.
- 2004 Design Of Urban Sustainable Infrastructure Engineering Systems: CU Denver's Sustainable Youth Zone (SYZ) Project In Commerce City, Colorado (w/ Anu Ramaswami (PI) et al.), NSF, not funded.
- 2003 CAREER: Ecological Impacts of Damming, Diverting, and Polluting Western Rivers, \$629,570, NSF, not funded.
- 2003 Collaborative Research: Hydrogeomorphic Controls on Ecosystem Processes in a Western River (w/ WM Lewis and J Pitlick), NSF, panel recommended for \$152,551 funding, but ultimately not funded.
- 2003 Mentoring for underrepresented groups in Environmental Biology (w/ D. Tomback, T. Roane, L. Bruederle, and M. Greene). UMEB NSF, not funded.
- 2002 Effects of Macrophytes on the Structure and Function of Littoral Communities: Do Macrophyte Species Richness and Composition Matter? \$351,343, NSF, not funded.
- 2002 Collaborative Research: Hydrogeomorphic Controls on Ecosystem Processes Along a River Continuum (w/ WM Lewis and J Pitlick), \$152,550 requested, NSF, not funded.
- 2001 Influence of Macrophyte Species Richness On Littoral Communities, Sediment-Water Interactions, and Nutrient Dynamics, \$436,470 requested, NSF, not funded.
- 2001 Collaborative Research: Hydrogeomorphic Controls on Ecosystem Processes in a Western River (w/ WM Lewis and J Pitlick), Western Water Assessment, \$40,000 awarded.
- 2001 Phytoremediation of MTBE using poplar trees(w/ Anu Ramuswami et al.), EPA, NSF, DOE, and ONR, requested ~\$300k, not funded.
- 2001 Influence of ultraviolet radiation and nutrient enrichment on alpine stream ecosystems, Global Change and Environmental Quality (GCEQ) Program, \$2000 awarded.
- 2000 Influence of Macrophyte Species Richness On Littoral Communities, Sediment-Water Interactions, and Nutrient Dynamics, \$408,670 requested, NSF, not funded.
- 1996 The Roles of Aquatic Macrophytes in Maintaining Clear Water Lakes: Biogeochemical Processes, Littoral-Pelagic Links, and the Influence of Large Herbivores. CIRES Visiting Fellowship Program, U. Colorado. \$35,000 awarded.
- 1995 Aquatic macrophyte-herbivore interactions: relative importance of the macrophyte as food vs. habitat. REU supplement to David Lodge's NSF grant, \$5000 awarded.
- 1994 Feeding Preferences of Painted Turtles (*Chrysemys picta*) Among Aquatic Macrophytes: Proximal Cues Used in Feeding Decisions. REU supplement to David Lodge's NSF grant, \$5000 awarded.
- 1994 Feeding Habits of the Chrysomelid Beetle *Galerucella nymphaeae*: Can Protection From Predators Be an Ultimate Factor for Specializing on a Noxious Host? REU supplement to David

Lodge's NSF grant, \$5000 awarded.

1989 Assessing the Cost of Secondary Metabolite Production in a Brown Alga. NSF Graduate Fellowship, Honorable mention.

Other Indicators of Scholarly and Creative Activity

2018 Wake Up! Speak Out! Anti-Racism Resolution

2017 Yon Sel Lanmou, 30 minute interview on KGNU radio, pod cast,

<http://www.kgnu.org/metro/5/3/2017>

2015-2017 Created the Jean Wiener Environmental Scholarship. Based in Haiti, the 1st recipient will become the first Haitian in history to earn an MS in Marine Conservation from a Haitian University. (*placed on hold because of withholding of funds by CU Denver*)

ongoing **Cronin, G.** and Brutus, M.H., FEED HAITI, Flowing Edible Ecosystem Development, Haiti Aquaponic International Transdisciplinary Initiative, <http://YonSelLanmou.org/feed-haiti/> *A transdisciplinary project building a commercial-scale (50,000 gallon) aquaponic system in Haiti.*

ongoing **Cronin, G.** and Jean-Paul, C., Yon Sel Lanmou Vetiver System, <http://yonsellanmou.org/vetiversystem/> *A transdisciplinary ecosystem restoration system to simultaneously produce valuable vetiver oil, grow food, and rebuild soil in Haiti.*

2015 Augustin, M., Louissant, W., Schneider, C., **Cronin, G.**, et. al., Vilaj Mozayik.

<http://YonSelLanmou.org/Mozayik/>. A new beginning for a village that has suffered much since the earthquake. Documentary trailer: <https://vimeo.com/64182760>. *Yon Sel Lanmou purchased land in Hinche, Haiti (no small feat) to relocate Vilaj Mozayik. Yon Sel Lanmou's continued involvement will include agriculture, land stewardship, and sustainable practices.*

2015 **Cronin, G.**, 5th Quake Anniversary Remembrance. Jan. 12., Held in Gwo Jan, Haiti. Slide show, video, presentations, food, and live music. *Engaged the public about the efforts of Yon Sel Lanmou and acknowledged continuing struggles. Sent the message that we still care and want to help.*

2014 Marchetta, T, **Cronin, G.**, Shelley, C., and McKiernan, M. Plastic Microbeads From Your Toothpaste Can Lodge In Gums, May End Up As Pollutants In Colorado Rivers. Ch. 7 News, <https://www.youtube.com/watch?v=beJdP6fhXY0> *A transdisciplinary study that discovered plastic microbeads in the S. Platte River, resulting in CO legislation to ban microbeads from products.*

2014 **Cronin, G. et al**, Royalty Free Haiti., Two award winning music schools in Haiti. <http://RoyaltyFreeHaiti.com/> *Uses music to educate and engage Haitian children about sustainability, computers, and STREAM disciplines.*

2014 **Cronin, G. et al**, Safe water for Haiti. I partnered with 'Clean Water Around the World' to bring water filters to Haiti. Yon Sel Lanmou is continuing the efforts (<http://YonSelLanmou.org/water/>) Documentary film made about the project (<https://www.youtube.com/watch?v=2BWLXqwh1Oo>). *Engage the public about water-borne diseases and plastic trash. Each filter can make 1 million gallons of drinking water, saving lives and eliminating millions of plastic bags.*

2013 **Cronin, G.**, Yon Sel Lanmou 501(c)3. <http://YonSelLanmou.org/> *A non-profit I founded with a mission to use love to create a thriving, sustainable society in Haiti.*

Non-Peer Reviewed Publications, Exhibitions, Performances

- 2017 Million Trees for Haiti fundraiser, four live bands, including Mona Augustin from Haiti. I performed bass for two of the songs that Mona performed.
- 2015 Najee, Yon Sel Lanmou, Exhibition of art from Haiti, Month of August, City o City, Denver.
- 2015 Augustin, M. and Cronin, G. Mamamee Music Video,
<https://www.youtube.com/watch?v=ZmzpiJSAJ6E>
- 2015 Kob Nwa (my band in Haiti), Kapote Woule Music Video for Carnaval 2015.
<https://www.youtube.com/watch?v=aHecqj3QYP4>
- 2015 Augustin, M. and Cronin, G. Une Americaine Music Video,
<https://www.youtube.com/watch?v=d2sKhzheKeE>
- 2014 Cronin, G., et al., Royalty Free Haiti sendoff, a community event with music, presentations, and fundraising as our team of six Americans prepared to travel to Haiti to establish two music schools. *Raised funds, awareness, and cultural exchange.*
- 2013 Cronin, G., 4th Annual Haiti Benefit Concert. Mute Man's Microphone with Kenny O, Wheelchair Sports Camp, Felix Fast4Ward. Emceed by Theo Wilson. Denver, CO. *Raised funds, awareness, and cultural exchange.*
- 2012 Cronin, G., Dedication of the Wangari Maathai Memorial Bench at Golda Meir House. I received the grant and commissioned the bench to honor the heroine of sustainability. *Engages people about sustainability, freedom, and women's rights.*
- 2013 Wiener, J, Cronin, G., May, T, Dubois, D. Rapid Ecological Baseline Assessment Lower Trou du Nord River (Caracol Industrial Park, Haiti), InterAmerican Development Bank Report. 75pp. *A transdisciplinary study that contributed to the declaration of a 90,000 ha (3.2% area of country) marine protected area.*
- 2012 Sawyer, J.D., Mancini, B., Ground, T., Cronin, G., Hull, J., Webb, T., Brashears, B. Aquaponics feasibility study for the Denver County Sheriff's Department. 80 pp. *A transdisciplinary study that led to the creation of the 1st aquaponic system in a US jail.*
- 2011 Cronin, G. Aquaponics. Encyclopedia of Environmental Issues. Salem Press, Pasadena. *Article that explained aquaponics to the general public.*
- 2011 Cronin, G. 2011. Wastewater Management. Encyclopedia of Environmental Issues. Salem Press, Pasadena. *Article explained wastewater management to the general public. Important information for Marchetta et al. 2014.*
- 2011 Cronin, G. 2011. Marine Debris. Encyclopedia of Environmental Issues. Salem Press, Pasadena. *Article that explained marine debris to the general public. Important information for Marchetta et al. 2014.*
- 2010 Pattison, A and Auraria Campus Sustainability Council. The Auraria Campus Climate Action Plan. AHEC, Denver. *The 1st climate action plan for the largest urban campus in America. Used to meet ACUPCC goals.*
- 2012 Cronin, G., 3rd Annual Haiti Benefit Concert. Mute Man's Microphone, Wheelchair Sports Camp, 3Two, and 2 Roots (a band from Haiti). Denver, CO. *Raised funds, awareness, and cultural exchange. Denver, CO.*

- 2012 **Cronin, G. et al**, Farm Fest at Stapleton Farm. Mute Man’s Microphone concert and farm/aquaponics tour. Denver, CO. *Engaged the public about urban agriculture and aquaponics.*
- 2011 **Cronin, G.,** Heffernan, K., Bluntschli, L, Nerath, J, and Dorismond, J. Go Away Cholera. <http://goo.gl/mdNZwJ> *A music video that demonstrated how to avoid contracting cholera in Haiti.*
- 2011 **Cronin, G. et al**, Save Our Snow, Climate change awareness event. Mute Man’s Microphone. Loveland Ski Area, CO. *Engaged skiers/boarders about climate change, and the future of their sports.*
- 2011 **Cronin, G. et al**, Sustainable Urban Agriculture. CU Denver Homecoming Forum: From Farm to Fork. Invited presentation/panel. Denver, CO. *Transdisciplinary event sponsored by CLAS that has led to the Denver County jail aquaponic system and Aquaponic Farming (SUST 3411) being offered at the Growhaus.*
- 2011 **Cronin, G. et al**, Farm Fest at Stapleton Farm. Mute Man’s Microphone concert and farm/aquaponics tour. Denver, CO. *Engaged the public about urban agriculture and aquaponics.*
- 2011 **Cronin, G.,** 2nd Annual Haiti Benefit Concert. Mute Man’s Microphone, Wheelchair Sports Camp, Go Star, 3Two. Denver, CO. *Raised funds, awareness, and cultural exchange. Denver, CO.*
- 2011 **Cronin, G. et al**, Earth Day Event. Commerce City, CO. Mute Man’s Microphone. Concert on a zero-carbon stage. Denver, CO. *Engaged the public about climate change.*
- 2011 **Cronin, G. et al**, Sustainability Fair. Mute Man’s Microphone, aquaponics, and zero-carbon transportation. Auraria, CO. *Engaged the public about climate change and aquaponics.*
- 2010 **Cronin, G.,** 1st Annual Haiti Benefit Concert, Jan. 16, (4 days after quake). Mute Man’s Microphone, Wheelchair Sports Camp, Abi and Blue Language. Arvada, CO. *Raised funds and awareness.*
- 2010 **Cronin, G. et al**, Art from Ashes. Mute Man’s Microphone. Concert for AfA, serving at risk youth through poetry and the arts. Denver, CO. *AfA engages youth through poetry and art.*
- 2010 **Cronin, G. et al**, Autism Biker Rally,. Mute Man’s Microphone. Denver, CO. *Event to raise awareness about autism.*
- 2010 **Cronin, G. et al**, 1st Auraria Sustainability Fair. My SUST I students produced the event and my band Mute Man’s Microphone performed. Zero-carbon concert. Auraria, CO *Engaged the public about climate change and sustainability.*
- 2010 **Cronin, G. et al**, Progressive Veterans. Mute Man’s Microphone, Denver, CO. *A creative event to raise awareness about veteran issues and to promote peace.*
- 2009 **Cronin, G. et al**, Grown Up Denver,. Mute Man’s Microphone, Denver, CO. *A creative event to raise awareness about domestic violence.*
- 2008 **Cronin, G. et al**, Fight with Food. Mute Man’s Microphone, Three concerts to raise awareness about hunger and support Food Bank of the Rockies and Houston Food Bank, helping victims of Hurricanes Ike and Gustav. *Creative events to raise awareness about hunger and hurricanes.*

Peer Reviewed Presentations at Meetings/Conferences (presented by G. Cronin unless indicated otherwise)

- 2018 Racism is the Major Scourge of the Environment in Haiti, International Interdisciplinary Conference on the Environment, Montreal.
- 2016 Applied Ecology: Defining the subdiscipline and using it to ban plastic pollutants from Colorado streams, Ecological Society of America, Fort Lauderdale, FL

- 2016 Life Cycle Assessment of a greenhouse aquaponic system, Presented by Hollman, R. w/ G. Cronin and J. Brett, International Interdisciplinary Conference on the Environment, Austin, TX, pending
- 2016 Benefits and Pitfalls of Creating a 501(c)3 Non-Profit for International Transdisciplinary Scholarship: The Case Study of Yon Sel Lanmou in Haiti, International Interdisciplinary Conference on the Environment, Austin, TX
- 2015 Using the Transdisciplinary Approach to Remove Plastic Microbeads from Colorado Rivers, Rocky Mountain Hydrologic Research Center Annual Meeting, Denver, CO
- 2015 Will the Caracol Industrial Park bring progress or environmental disaster?, 21st International Interdisciplinary Conference on the Environment, San Juan, Puerto Rico
- 2014 Invited Keynote Address: Rewarding Transdisciplinary Scholarship in Higher Education, 20th International Interdisciplinary Conference on the Environment, Denver CO
- 2013 Integrating Transdisciplinary Research with Boyer's Model of Scholarship: Using transdisciplinary scholarship to address the wicked problem of rebuilding Haiti, 19th International Interdisciplinary Conference on the Environment, Portland, OR
- 2013 Go Away Cholera. Un/Shared Worlds: Visions of Transdisciplinary Approaches to Ecological, Economic and Arts-Based Anthropology, Denver
- 2012 Aquaponics: Growing fish and vegetables together with minimal environmental impact, 18th International Interdisciplinary Conference on the Environment, Portland, ME.
- 2011 Aquaponics: Recommended Area of Research. Rocky Mountain Hydrologic Research Center Annual Meeting. Denver, CO.
- 2010 Campus Gardening: Auraria Campus Raised Organic Produce (CROP). American Association for Sustainability in Higher Education, Invited talk, Denver, CO.
- 2010 Aquaponics: Engineering aquatic ecosystems to grow food. Rocky Mountain Hydrologic Research Center annual meeting, Allenspark, CO.
- 2009 Interspecific patterns of tradeoffs among growth, defense, and stress tolerance., Poster, Marine Benthic Ecology Meeting, Corpus Christi, TX
- 2007 Effects of Coal-Bed Methane Discharge Waters on Soils and Vegetation, Rocky Mountain Hydrologic Research Center, Allenspark, CO
- 2005 It is possible to grow and defend, but at what cost?, Ecological Society of America Meeting, Montreal, Canada
- 2003 There is more to life than growth and defense: applying Grime's model of plant life histories to seaweed chemical defenses, Annual Meeting, Marine Benthic Ecology Meeting, Storrs, CT
- 2002 Effects of nutrient and UVR availability on a subalpine stream, Annual Meeting, North American Benthological Society, Pittsburgh, PA
- 2002 Effects of nutrient and UVR availability on a subalpine stream., Annual Meeting, Rocky Mountain Hydrological Research Center, Boulder, CO
- 2001 Effects of nutrient and UV availability on St. Vrain: Preliminary results, Annual Meeting, Rocky Mountain Hydrologic Research Center, Boulder, CO
- 2001 Relationship between hydrology and ecosystem function in the South Platte River, Colorado.

- Annual Meeting, North American Benthological Society, LaCrosse, WI.
- 2000 Effect of light and nutrient availability on the growth, carbon/nitrogen balance, phenolic chemistry, and resistance to herbivory in two freshwater macrophytes, Annual Meeting, North American Benthological Society, Keystone, CO.
- 1999 The influence of macrophytes on macroinvertebrates and sediment-water interactions, Annual Meeting, North American Benthological Society, Duluth, MN.
- 1998 Newman, R.M., **G. Cronin**, and S. L. Solarz. The importance of prior experience and population source in the determination of host range. Evaluating Indirect Ecological Effects of Biological Control - An International Symposium of the Global IOBC (International Organization for Biological Control), Agropolis International, Montpellier, France. IOBC Bulletin 22(2): 52 *Prior experience alters feeding behavior of a biocontrol agent.*
- 1997 Why do crayfish eat what they eat? The role of plant structure, chemical defenses, and nutritive value, Annual Meeting, Midwest Ecology and Evolution Conference
- 1996 Influence of macrophyte structure, nutritive value, and chemistry on the feeding choices of a generalist crayfish, Invited seminar, National Environmental Research Institute, Silkeborg, Denmark
- 1996 Freshwater macrophyte-herbivore interactions: feeding preferences of herbivores and the effects of higher trophic levels, Annual Meeting, Ecological Society of America Meeting, Macrophyte Symposium, Providence, RI
- 1996 Intraspecific variation in host preference of *Galerucella nymphalae*: genetic vs. environmental influences, Annual Meeting, Midwest Ecology and Evolution Conference, Michigan State University
- 1996 Stress alters seaweed chemical defenses and susceptibility to herbivores: Effects of previous attack, desiccation, and U.V. radiation, Annual Meeting, Southeastern Phycological Colloquy
- 1996 Intraspecific variation in seaweed palatability and chemical defenses: Effects of previous attack, UV exposure, and desiccation, Annual Meeting, Marine Benthic Ecology Meeting
- 1995 Water-lily-herbivore interactions: feeding selectivity, herbivory rates, and leaf turnover, Annual Meeting, North American Benthological Society Meeting, Keystone, Colorado
- 1995 Freshwater macrophyte-herbivore interactions: generalist vs. specialist grazers, Annual Meeting, Midwest Ecology and Evolution Conference, Bowling Green College
- 1995 Freshwater macrophyte-herbivore interactions: generalist vs. specialist grazers, Annual Meeting, Gordon Conference, Oxnard, California
- 1995 Amphipod grazing induces chemical defenses in the brown alga *Dictyota menstrualis*, Annual Meeting, Marine Benthic Ecology Meeting.
- 1994 Determinants of plant preference by generalist crayfishes, Annual Meeting, North American Benthological Society Meeting, Orlando, FL
- 1994 Plant preference by freshwater specialist herbivores: selection of enemy-free-space?, Annual Meeting, North American Benthological Society Meeting
- 1994 Within-thallus variation in palatability and chemical defenses in the brown alga *Dictyota ciliolata*, Annual Meeting, Southeastern Phycological Colloquy

- 1994 Effect of desiccation on the brown alga *Dictyota ciliolata* and its resistance to herbivores, Annual Meeting, Marine Benthic Ecology Meeting.
- 1993 Distribution, abundance, and predator avoidance of the specialist nudibranch *Tritonia hamnerorum*, Annual Meeting, Marine Benthic Ecology Meeting.
- 1992 Effects of environment on *Dictyota* chemistry and resistance to herbivory: A test of the resource availability hypothesis, Annual Meeting, Marine Benthic Ecology Meeting.
- 1991 Can an alga distinguish between amphipod and urchin grazing?, Annual Meeting, Northeast Algal Symposium
- 1991 Can an alga distinguish between amphipod and urchin grazing?, Annual Meeting, Marine Benthic Ecology Meeting.

Non-Peer Reviewed Presentations at Meetings/Conferences

- 2014 Meg DeLisle, Greg Cronin, and Raphael Moreno, An Integrated Approach to Adaptive Land Management based on Ecosystem Service Evaluations: A case study of the Trou de Nord Watershed in Haiti, Research and Creative Activities Symposium, CU Denver
- 2012 Adrienne D'Agostino and Greg Cronin, Benthic macroinvertebrate responses to SunCor Energy leak into Sand Creek, Research and Creative Activities Symposium, CU Denver
- 2001 Effect of springs on macrophyte distribution - AWMA Meeting, Univ. of Colorado at Denver
- 1994 Effect of desiccation and UV radiation on the brown alga *Dictyota ciliolata* and its resistance to herbivores, Annual Meeting, Students of Organismal Biology Symposium, UNC-Chapel Hill.
- 1993 Distribution, abundance, and predator avoidance of the specialist nudibranch *Tritonia hamnerorum*, Annual Meeting, Duke University Marine Lab Graduate Symposium, Beaufort, NC.
- 1988 Serine esterases of the yolk sac membrane, Biochemistry Symposium, Univ. of Kansas.

Seminars/Workshops Presented

- 2017 Invited Presentation, One Million Trees for Haiti, Advanced Wellness Partners, Denver.
- 2017 Invited seminar, Ecological Economics: Creating Economic Opportunity By Improving Ecosystem Services, CFDE University, Port au Prince, Haiti.
- 2017 Invited seminar, Public Health Implications of Aquaponic Farming, H.E.L.P., Inc., Croix des Bouquets, Haiti
- 2016 Invited presentation, Applied Ecology in Haiti: Including stakeholders using the transdisciplinary approach, CU Denver CLAS Interdisciplinary Exchange
- 2016 Invited seminar, Yon Sel Lanmou: Empowering Haitian to Restore Ecosystems and Create a Sustainable Society, MSU Denver.
- 2015 Invited seminar, Café Scientifique 2, Hooked on Ponics: Building an Edible Aquatic Ecosystem, Denver, CO.
- 2015 Invited seminar, FEED HAITI, Zion Baptist Church, Denver, CO.

- 2014 Invited seminar, Transdisciplinary Scholarship to Protect and Restore Haitian Ecosystems, University of Northern Colorado
- 2014 Invited seminar, The work of Yon Sel Lanmou in Haiti, Westminster Rotary Club,
- 2013 The Work of Yon Sel Lanmou in Haiti, 4th Annual Haiti Benefit Concert, Denver, CO.
- 2012 Aquaponics lab. CLAS-sponsored Cole Middle School DSST campus visit.
- 2012 Personal experiences working in Haiti. Haitian Revolution celebration at St. Cajetan's. Auraria, CO.
- 2012 Aquaponics: Growing fish and vegetables together at the Denver County Jail. (with JD Sawyer) Denver County Jail.
- 2012 Aquaponics: technology to grow sustainable healthy food anywhere in the world. Invited Presentation, Univ. North Texas, Denton.
- 2011 Denver Food Producing Animals Forum: Aquaponics to produce fish and veggies,. A conference to educate and grow support for new Denver policies.
- 2011 Aquaponics to teach middle school science and sustainability. Cole Middle School. Denver School for Science and Technology. Invited presentation. Denver, CO.
- 2011 Aquaponics: an innovative technology to grow sustainable food. University Honors and Leadership Program Innovation Symposium. Invited talk/panel. Denver, CO.
- 2010 Live Local, Give Global: a personal perspective. Special Session on Ecological Justice. American Education Research Association, Invited Talk/Panel, Denver, CO.
- 2009 Panel member for 'Developing Urban Agriculture', Growing Power Workshop, The Urban Farm at Stapleton.
- 2007 The chemical ecology of prey: tradeoffs among growth, defense, and stress tolerance -, Invited Seminar, Texas A&M, Galveston, TX
- 2007 The chemical ecology of prey: tradeoffs among growth, defense, and stress tolerance -, Invited Seminar, CU Denver-Biology, Denver, CO.
- 2005 The chemical ecology of prey: tradeoffs among growth, defense, and stress tolerance, Invited Seminar, Georgia Tech, Atlanta
- 2005 A test of a 3-way allocation model among growth, defense, and stress tolerance., Invited seminar, Smithsonian Marine Station, Ft. Pierce, FL
- 2005 What to do when your dissertation organisms disobey ecological models? Create your own model!, Invited seminar, Institute of Marine Sciences, UNC-CH, Morehead City, NC
- 2004 The chemical ecology of prey: tradeoffs among growth, defense, and stress tolerance, Invited Seminar, Colorado State University, Fort Collins, CO.
- 2004 Allocation of resources with respect to chemical defenses: when is it possible to grow and defend?, Annual Meeting, North American Benthological Society, Vancouver, Canada
- 2003 Ecological roles of freshwater macrophytes, Invited Seminar, Phytoremediation Workshop, Univ. of Colorado at Denver
- 2003 The chemical ecology of prey-consumer interactions, Invited Seminar, Math Science Initiative, Univ. of Colorado at Denver

- 2002 The chemical ecology of prey-consumer interactions., Invited Seminar, Math Science Initiative, Univ. of Colorado at Denver
- 2001 A career as an ecologist, Invited Seminar, Math Science Initiative, Univ. of Colorado at Denver
- 2000 Outcome of plant-herbivore interaction depends on recent history of both the plant and animal., Invited seminar, Univ. of Northern Colorado
- 1998 Aquatic macrophyte-herbivore interactions: Consumer preferences, plant defenses, and roles in ecosystem processes, Invited Seminar, Univ. of Colorado at Denver
- 1998 Susceptibility to herbivory depends on recent history of both the plant and the animal: effects of previous attack, desiccation, and starvation, Invited Seminar, Dept. of Botany, Univ. of Kansas
- 1997 The effects of the environment on chemically mediated seaweed-herbivore interactions, Invited seminar, Bowdoin College, Brunswick, ME.
- 1997 Chemical defenses in 3 kingdoms, Invited seminar, Union College, Schenectady, NY.
- 1997 Chemical warfare between seaweeds and herbivores, Invited seminar, Middlebury College, Middlebury, VT.
- 1995 Amphipod grazing induces chemical defenses in the brown alga *Dictyota menstrualis*, Invited seminar, Kellogg Biological Station, Michigan State University
- 1995 Freshwater macrophyte-herbivore-predator interactions, Invited seminar, University of Notre Dame
- 1995 Amphipod grazing induces chemical defenses in the brown alga *Dictyota menstrualis*, Invited seminar, University of Notre Dame

Professional Organizations

- 2015-2017 Review Editor, Interdisciplinary Environmental Review, Inderscience
- 2015-2018 Counselor, Interdisciplinary Environmental Association
- 2010-2012 President, Rocky Mountain Hydrologic Research Center, Allenspark, CO.
- 2011, 2015 Chair, Meeting Planning Committee, Rocky Mountain Hydrologic Research Center
- 2007-2017 Review Editor, Aquatic Biology, Inter-Research
- 2007-2010 Secretary, Rocky Mountain Hydrologic Research Center
- 2001-2005 Team Member, Western Water Assessment, CIRES/NOAA

Publications/Creative Works in Preparation

Cronin, G. and Najee, in prep. Yon Sel Lanmou music video. draft is here:

https://www.youtube.com/watch?v=s_1L5CizN70

Cronin, G. in prep. “Yon Sel Lanmou (One Love): Using love and the transdisciplinary approach to wrestle wicked problems in Haiti”.

Courses Taught

Applied Environmental Biology (BIOL 5445, CU Denver)
 Aquaponic Farming (did not 'make') (SUST 3414, CU Denver)
 Aquatic Ecology (BIOL 4416/5416, CU Denver)
 Backyard Aquaponics (Free School Denver)
 Biology Spring Seminar (BIOL 4910, CU Denver)
 Conservation Biology (CU Denver)
 Ecosystems of the Colorado River (did not 'make') (CU Denver)
 Fundamentals of Applied Ecology (CU Denver)
 Invertebrate Zoology (CU Denver)
 Marine Biology (CU Denver)
 Oceanography (Notre Dame)
 Sustainability I (CU Denver)

Courses Developed (but prevented from teaching)

Race and Racism in Biology (BIOL, CU Denver)
 Haiti: Colonialism, Racism, and Sustainability (SUST, CU Denver)

Service

2018	Faculty Sponsor, Wake Up! Speak Out!, a student club with a mission to disrupt racism and whiteness at CU Denver
2015-2018	Director, Mozayik, non-profit creating a community in Hinche, Haiti
2012-2018	Member, African Student Union
2010-2015	Member, Chancellor's Sustainability Task Force, CU Denver
2010-2017	Founding Member, Auraria Campus Sustainability Council, Auraria Higher Education Center, Denver, CO.
2008-2017	Founding Mentor, CU Denver Tenure Track Mentoring Program
2012-2014	Faculty Sponsor, CU Denver Ice Hockey
2013-2014	Member, Equity in Excellence, CU Denver
2013	Photographer for CLAS 40th Anniversary Event
2013	Milo Mascot for Holiday Greeting
2011-2018	Founding member, Research and Dissemination Council, Woodbine Ecology Center, Sedalia, CO.
2012-2014	Chair, Awards and Outreach Committee, Dept. of Integrative Biology
2013	Member, TT/T Faculty Roles and Rewards Task Force, CLAS CU Denver. .

- 2004–2007 CLAS Academic Ethics Committee (Chair for 1 year), CU Denver
- 2005–2008 Member, Metro Wastewater Reclamation District Citizen Participation Group .
- 2010–2012 Chair, CLAS Council, CU Denver
- 2009–2011 Director, Bands for Lands 501(c)3, Denver, CO.
- 2010 Honorary Chair, Vetiver Committee, J/P Haiti Relief Organization, Petionville, Haiti.
- 2009–2010 Coordinator, Auraria Sustainability Fair, Denver, CO.
- 2006–2010 Founding Member, CLAS Council, CU Denver
- 2008–2009 Acting Chair, Department of Biology, CU Denver
- 2008–2009 Member, Chancellor's Athletics Task Force, CU Denver.

Student Publications from work under my direction

- Janine K. Bennett, Angel D. Hickman, **Michael A. Kline**, Michael W. McGinnis, and Michael J. Weissmann. **2005**. New State Record For The Asian Tiger Mosquito, *Aedes albopictus* (Skuse), J. American Mosquito Control Association 21 (4), 341–343. *Michael was a Ph.D. candidate.*
- Dean, W. E., **Neff, B. P.**, Rosenberry, D. O., Winter, T. C. and Parkhurst, R. (**2003**), The Significance of Ground Water to the Accumulation of Iron and Manganese in the Sediments of Two Hydrologically Distinct Lakes in North-Central Minnesota: A Geological Perspective. Ground Water, 41: 951–963. *Dr. Neff defended his dissertation a couple of years ago.*
- Neff, B.P.**, Day, S.M., Piggott, A.R., and Fuller, L.M., Base flow in the Great Lakes Basin: U.S. Geological Survey Scientific Investigations Report **2005–5217**.
- Neff, B.P.**, Piggott, A.R., and R.A. Sheets Estimation of Shallow Ground-Water Recharge in the Great Lakes Basin. U.S. Geological Survey Scientific Investigations Report **2005–5284**.

Professional Development

- 2018 Benefits and Pitfalls of Being a White Accomplice
- 2010 International Tilapia and Aquaponic Workshop, University of Virgin Islands, St. Croix
- 2009 From the Ground Up, Urban Ag/Aquaponic Workshop with Will Allen, Urban Farm at Stapleton, Denver, CO

Graduate Students (GC was primary advisor)

Becca Hollman (MS Biology), Meg DeLisle (MS, Env. Sci.), Usha Balan (MS Biology), Brian Neff (MS, Env. Sci; now a Ph.D.), Michael Kline (M.S. BIOL, now a Ph.D. or Ph.D. candidate), Maria Stearns (MS, Env. Sci.), Adrienne D'Agostino (MS Biology), Cyrus Berry (MS Env. Sci.), Stefan Klemm (MS, Env. Sci.), Pamela Roszell (MS, Env. Sci.), Sharlene Haeger (MS, Env. Sci.), Diana Trujillo (MS, Env. Sci.), Kim Larson (MS, Env. Sci.), Laura Profit (MS Biology), Gabriella Paul (MS Biology), Laurie Shook (MS Biology), Dehlia Belina (MS, Env. Sci.), Lance Carpenter (MS Biology), Kaew Soonsawad (MS Biology, now a Ph.D.), and Anthony Titolo (MS, Env. Sci).