

Robin Scott Gregory

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BORN: October 6, 1950, Berkeley, California, USA

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STATUS: Married to Terry, two children (Shaun & Nicole)
Canadian citizen & U.S. citizen

EDUCATION

1972 B.A. (Economics) Yale University, New Haven, Connecticut
1974 M.A. (Environmental Economics) University of British Columbia, Vancouver
1982 Ph.D. (Economics & Psychology: Interdisciplinary Studies) UBC, Vancouver

PROFESSIONAL POSITIONS

current Senior Research Scientist, Decision Research (Head office: Eugene, Oregon)
Director, ChoiceWorks Ltd. (Halfmoon Bay, Sunshine Coast, BC)
Adjunct Professor, Institute for Resources and Environmental Sustainability, University of British Columbia
1994–1995 Special Advisor, UN Institute for Training and Research, Geneva
1991–1994 Visiting Professor of Decision Sciences, College of Business Administration, University of Oregon
1988–1989 Program Manager, Decision, Risk, and Management Science (DRMS) National Science Foundation, Washington, DC
1986–1989 Visiting Assistant Professor, Department of Economics and Department of Public Policy, Planning, and Management, University of Oregon
1982–1984 Assistant Professor, Dept of Economics, Keene State College, Keene NH

FIELDS OF SPECIALIZATION

Methods for identifying and evaluating social and cultural values
Structured decision making for environmental management consultations
Improving decision-making skills of K-12 students
Community & Indigenous involvement in risk and environmental decisions
Environmental policy choices under uncertainty: learning and adaptive management
Choice and preference behavior: economics and psychology of value

PROFESSIONAL ASSOCIATIONS

Society for Risk Analysis
International Society for Ecological Economics
Society for Judgment and Decision Making

COURSES TAUGHT (SELECTED)

Environmental risk management
Community participation in environmental decisions
Environmental issues and choices
Policy analysis: a global perspective
Economics of the environment
Growing a good decision maker: decision skills for K-12 students
Decision analysis and negotiations
Stakeholder participation and conflict resolution
Judgment and decision making

PROFESSIONAL SERVICE (SELECTED)

Editorial board, *Environmental Values*
Editorial council, *Journal of Environmental Economics and Management*
Fellow, Society for Risk Analysis
Panel member, National Science Foundation, Decision Risk and Management Sciences
2021 Volunteer of the Year, Society of Decision Professionals

GRADUATE STUDENTS (PHD)

Alexa Tanner (University of British Columbia), Margaret Low (University of British Columbia), Delanie Kellon (Michigan State University); Jamie Donatuto (University of British Columbia); Joseph Arvai (University of British Columbia); Bernhard Borges (Simon Fraser University); Terre Satterfield (University of New Mexico).

SELECTED PUBLICATIONS

- Gregory, R., Halteman, P., Kaechele, N., & Satterfield, T. (2023). Methods for assessing social and cultural losses. *Science*, 381 (6657), 478–481. doi: 10.1126/science.adi2206
- Hagerman, S., Satterfield, T., Nawaz, S., Peterson St-Laurent, G., Kozak, R., Gregory, R. (2021). Social comfort zones for transformative conservation decisions in a changing climate. *Conservation Biology* 35: 1932-1943.
- Dieckmann, N. F., Gregory, R., Satterfield, T., Mayorga, M., & Slovic, P. (2021). Characterizing public perceptions of social and cultural impacts in policy decisions. *PNAS: Proceedings of the National Academies of Science*, Vol 118, No 24 e2020491118..
- Gregory, R., Peterson St-Laurent, G., Kozak, R., Nawaz, S., Satterfield, T., & Hagerman, S. (2021). Under pressure: Conservation choices and the threat of species extinction. *Climatic Change*. <http://doi.org/10.1007/s10584-021-03102-3>
- Arvai, J., & Gregory, R. (2020). Beyond choice architecture: A building code for structuring climate risk management decisions. *Behavioral Public Policy*. Advance online publication. <https://doi.org/10.1017/bpp.2020.37>

Bessette, D. L., & Gregory, R. (2020). The promise and reality of social and cultural metrics. *Ecology and Society*, 25(3), Article 11. <https://doi.org/10.5751/ES-11730-250311>

SELECTED PUBLICATIONS, CONTINUED

Gregory, R., Halteman, P., Kaechele, N., Kotaska, J., & Satterfield, T. (2020). Compensating Indigenous social and cultural losses: A community-based multiple-attribute approach. *Ecology and Society*, 25(4), Article 4. <https://doi.org/10.5751/ES-12038-250404>

Gregory, R., Satterfield, T., & Boyd, D. R. (2020). People, pipelines, and probabilities: Clarifying significance and uncertainty in environmental impact assessments. *Risk Analysis*, 40, 218–226. doi:10.1111/risa.13409

Shrum, T. R., Markowitz, E., Buck, H., Gregory, R., van der Linden, S., Attari, S. Z., & Van Boven, L. (2020). Behavioural frameworks to understand public perceptions of and risk response to carbon dioxide removal. *Interface Focus*, 10(5), Article 20200002. <https://doi.org/10.1098/rsfs.2020.0002>

Gregory, R., & Dieckmann, N. (2019). Improving stakeholder engagement for upstream risks. In H. Kunreuther, R. J. Meyer, & E. O. Michel-Kerjan (Eds.), *The future of risk management* (pp. 193–208). Philadelphia, PA: University of Pennsylvania Press.

Gregory, R., Harstone, M., & Slovic, P. (2018). Improving intervention decisions to prevent genocide: Less muddle, more structure. *Genocide Studies and Prevention*, 11(3), 109–127. doi: 10.5038/1911-9933.11.3.1496

Dieckmann, N. F., Gregory, R., Peters, E., & Hartman, R. (2017). Seeing what you want to see: How imprecise uncertainty ranges enhance motivated reasoning. *Risk Analysis*, 37, 471–486. doi: 10.1111/risa.12639a

Dieckmann, N. F., Johnson, B. B., Gregory, R., Mayorga, M., Han, P. K., & Slovic, P. (2017). Public perceptions of expert disagreement: Bias and incompetence or a complex and random world? *Public Understanding of Science*, 26, 325–338. doi: 10.1177/0963662515603271

Gregory, R. (2017). The troubling logic of inclusivity in environmental consultations. *Science, Technology, & Human Values*, 42, 144–165. doi: 10.1177/0162243916664016

Gregory, R. (2017, March 14). Why environmental consultations don't work. *The Walrus*. <https://thewalrus.ca/why-environmental-consultations-dont-work/>

Gregory, R., & Keeney, R. L. (2017). A practical approach to address uncertainty in stakeholder deliberations. *Risk Analysis*, 37, 487–501. doi: 10.1111/risa.12638

Slovic, P., Västfjäll, D., Erlandsson, A., & Gregory, R. (2017). Iconic photographs and the ebb and flow of empathic response to humanitarian disasters. *PNAS*, 114, 640–644. doi: 10.1073/pnas.1613977114

Donatuto, J., Campbell, L., & Gregory, R. (2016). Developing responsive indicators of indigenous community health. *International Journal of Environmental Research and Public Health*, 13, 899. doi: 10.3390/ijerph13090899

Gregory, R., Easterling, D., Kaechele, N., & Trousdale, W. (2016). Values-based measures of impacts to indigenous health. *Risk Analysis*, 36, 1581–1588. doi: 10.1111/risa.12533

Gregory, R., Satterfield, T., & Hasell, A. (2016). Using decision pathway surveys to inform climate engineering policy choices. *PNAS (Proceedings of the U.S. National Academy of Sciences)*, 113, 560–565. doi: 10.1073/pnas.1508896113

- Dieckmann, N. F., Peters, E., & Gregory, R. (2015). At home on the range? Lay interpretations of numerical uncertainty ranges. *Risk Analysis*, *15*, 1281–1295.
- Beaudrie, C. E. H., Kandlikar, M., Gregory, R., Long, G., & Wilson, T. (2015). Nanomaterial risk screening: A structured approach to aid decision making under uncertainty. *Environment Systems and Decisions*, *35*, 88–109.
- Gregory, R., & Slovic, P. (2015). *Structuring intervention decisions to prevent genocide and mass atrocities* (Working Paper No. 15-02). Eugene, OR: Decision Research.
- Arvai, J., Kellon, D., León, R., Gregory, R., & Richardson, R. (2014). Structuring international development decisions: Confronting tradeoffs between land-use and community development in Costa Rica. *Environmental Systems and Decisions*.
- Failing, L., Gregory, R., & Higgins, P. (2013). Science, uncertainty, and values in ecological restoration: A case study in structured decision-making and adaptive management. *Restoration Ecology*, *21*, 422–430. doi: 10.1111/j.1526-100X.2012.00919.x
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- Satterfield, T., Gregory, R., Klain, S., Roberts, M., & Chan, K. M. (2013). Culture, intangibles and metrics in environmental management. *Journal of Environmental Management*, *117*, 103–114.
- Arvai, J., Gregory, R., Bessette, D., & Campbell-Arvai, V. (2012). Decision support for developing energy strategies. *Issues in Science and Technology*, *28*(4), 43–52.
- Dieckmann, N. F., Peters, E., Gregory, R., & Tusler, M. (2012). Making sense of uncertainty: Advantages and disadvantages of providing an evaluative structure. *Journal of Risk Research*, *15*, 717–735.
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- Gregory, R., Long, G., Colligan, M., Geiger, J. G., & Laser, M. (2012). When experts disagree (and better science won't help much): Using structured deliberations to support endangered species recovery planning. *Journal of Environmental Management*, *105*, 30–43.
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- Gregory, R., Peters, E., & Slovic, P. (2011). Making decisions about prescription drugs: A study of doctor-patient communication. *Health, Risk, and Society*, *13*, 347–371.

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- Gregory, R., Failing, L., & Harstone, M. (2008). Meaningful resource consultations with First Peoples: Notes from British Columbia. *Environment, 50*, 34–45.
- Turner, N. J., Gregory, R., Brooks, C., Failing, L., & Satterfield, T. (2008). From invisibility to transparency: Identifying the implications. *Ecology and Society, 13*, 7.
- Failing, L., Gregory, R., & Harstone, M. (2007). Integrating science and local knowledge in environmental risk management: A decision-focused approach. *Ecological Economics, 64*, 47–60.
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- Arvai, J., Gregory, R., Ohlson, D., Blackwell, B., & Gray, R. (2006). Letdowns, wake-up calls, and constructed preferences: People's responses to fuel and wildfire risks. *Journal of Forestry, 104*, 173–181.
- Gregory, R., Failing, L., & Higgins, P. (2006). Adaptive management and environmental decision making: A case study application to water use planning. *Ecological Economics, 58*, 434–447.
- Gregory, R., Failing, L., Ohlson, D., & McDaniels, T. (2006). Some pitfalls of an overemphasis on science in environmental risk management decisions. *Journal of Risk Research, 9*, 717–736.
- Gregory, R., Ohlson, D., & Arvai, J. (2006). Deconstructing adaptive management: Criteria for applications to environmental management. *Ecological Applications, 16*(6), 2411–2425.
- Gregory, R., Fischhoff, B., & McDaniels, T. (2005). Acceptable Input: Using decision analysis to guide public policy deliberations. *Decision Analysis, 2*, 4–16.
- Keeney, R., & Gregory, R. (2005). Selecting attributes to measure the achievement of objectives. *Operations Research, 53*, 1–11.
- McDaniels, T., & Gregory, R. (2004). Learning as an objective within a structured risk management decision process. *Environmental Science and Technology, 38*, 1921–1926.
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- Arvai, J., & Gregory, R. (2003). Testing alternative decision approaches for identifying cleanup priorities at contaminated sites. *Environmental Science & Technology, 37*, 1469–1476.
- Failing, L., & Gregory, R. (2003). Ten common mistakes in designing biodiversity indicators for forest policy. *Journal of Environmental Management, 68*, 121–132.

- Gregory, R., Fischhoff, B., Thorne, S., & Butte, G. (2003). A multi-channel stakeholder consultation process for transmission deregulation. *Energy Policy*, 31, 1291–1299.
- McDaniels, T., Gregory, R., Arvai, J., & Chuenpagdee, R. (2003). Decision structuring to alleviate embedding in environmental valuation. *Ecological Economics*, 46, 33–46.
- Peters, E., Slovic, P., & Gregory, R. (2003). The role of affect in the WTA/WTP Failing. *Journal of Behavioral Decision Making*, 16, 303–330.
- Arvai, J., McDaniels, T., & Gregory, R. (2002). Exploring a structured decision approach as a means of fostering participatory space policy making at NASA. *Space Policy*, 18, 221–231.
- Gregory, R. (2002). Incorporating value tradeoffs into community-based environmental risk decisions. *Environmental Values*, 11, 461–488.
- Gregory, R., & Failing, L. (2002). Using decision analysis to encourage sound deliberation: Water use planning in British Columbia, Canada. *Journal of Policy Analysis and Management*, 21, 492–499.
- Gregory, R., & Keeney, R. (2002). Making smarter environmental management decisions. *Journal of the American Water Association*, 38, 1601–1612.
- Gregory, R., & Satterfield, R. (2002). Beyond perception: The experience of risk and stigma in community contexts. *Risk Analysis*, 22, 347–358.
- Arvai, J., Gregory, R., & McDaniels, T. (2001). Testing a structured decision approach: Value-focused thinking for deliberative risk communication. *Risk Analysis*, 21, 1065–1076.
- Gregory, R., Arvai, J., & McDaniels, T. (2001). Value-focused thinking for environmental risk consultations. *Research in Social Problems and Public Policy*, 9, 249–274.
- Gregory, R., McDaniels, T., & Fields, D. (2001). Decision aiding, not dispute resolution: Creating insights through structured environmental decisions. *Journal of Policy Analysis and Management*, 20, 415–432.
- Gregory, R., & Wellman, K. (2001). Bringing stakeholder values into environmental policy choices: A community-based estuary case study. *Ecological Economics*, 39, 37–52.
- Russell, C., Dale, V., Lee, J., Jensen, M., Kane, M., & Gregory, R. (2001). Experimenting with multi-attribute utility survey methods in a multidimensional valuation problem. *Ecological Economics*, 36, 87–108.
- Gregory, R. (2000). Using stakeholder values to make smarter environmental management decisions. *Environment*, 42, 34–44.
- Gregory, R. (2000). Valuing environmental policy options: A case-study comparison of multiattribute and contingent valuation survey methods. *Land Economics*, 76, 151–173.
- Satterfield, T., Slovic, P., & Gregory, R. (2000). Narrative valuation in a policy judgment context. *Ecological Economics*, 34, 315–331.
- Brown, T., & Gregory, R. (1999). Why the WTA-WTP disparity matters. *Ecological Economics*, 28, 323–335.
- Gregory, R. (1999). Commentary on “Measuring constructed preferences: Towards a building code.” *Journal of Risk and Uncertainty*, 19, 273–275.
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- McDaniels, T., Gregory, R., & Fields, D. (1999). Democratizing risk management: Successful public involvement in local water management decisions. *Risk Analysis*, 19, 497–510.

- Satterfield, T., & Gregory, R. (1998). Reconciling environmental values and pragmatic choices. *Society & Natural Resources*, 11, 629–647.
- Wagner, R., Flynn, J., & Gregory, R. (1998). Public perceptions of risk and acceptability of forest vegetation management alternatives in Ontario. *The Forestry Chronicle*, 74, 720–727.
- Wagner, R., Flynn, J., Gregory, R., Mertz, C. K., & Slovic, P. (1998). Acceptable practices in Ontario's forests: Differences between the public and forestry professionals. *New Forests* 16, 139–154.
- Gregory, R., Flynn, J., Johnson, S., Satterfield, T., Slovic, P., & Wagner, R. (1997). Decision pathway surveys: A tool for resource managers. *Land Economics* 73, 240–254.
- Gregory, R., & Slovic, P. (1997). A constructive approach to environmental valuation. *Ecological Economics*, 21, 175–181.
- Wellman, K., Nugent, R., & Gregory, R. (1997). Assessing stakeholder values for salmon restoration in Willapa Bay, Washington. *Interact: The Journal of Public Participation*, 3, 38–56.
- Gregory, R., Brown, T., & Knetsch, J. (1996). Valuing risks to the environment. *The Annals of the American Academy of Political and Social Science*, 545, 54–63.
- Gregory, R., Slovic, P., & Flynn, J. (1996). Risk perceptions, stigma, and health policy. *Health & Place*, 2, 213–220.
- Gregory, R., & von Winterfeldt, D. (1996). The effects of electromagnetic fields from transmission lines on public fears and property values. *Journal of Environmental Management*, 48, 201–214.
- Gregory, R., Flynn, J., & Slovic, P. (1995). Technological stigma. *American Scientist*, 83, 220–223.
- Gregory, R., Lichtenstein, S., Brown, T., Peterson, G., & Slovic, P. (1995). How precise are monetary representations of environmental improvements? *Land Economics*, 71, 462–473.
- Gregory, R., & Keeney, R. L. (1994). Creating policy alternatives using stakeholder values. *Management Science*, 40, 1035–1048.
- Gregory, R., & Lichtenstein, S. (1994). A hint of risk: Tradeoffs between quantitative and qualitative risk factors. *Risk Analysis*, 14, 199–206.
- Loomis, J., Gonzalez-Caban, A., & Gregory, R. (1994). Do reminders of substitutes and budget constraints influence contingent valuation estimates? *Land Economics*, 70, 499–506.
- Slovic, P., Flynn, J., & Gregory, R. (1994). Stigma happens: Social problems in the siting of nuclear waste facilities. *Risk Analysis*, 14, 773–777.
- Gregory, R., Lichtenstein, S., & MacGregor, D. (1993). The role of past states in determining reference points for policy decisions. *Organizational Behavior and Human Decision Processes*, 55, 195–206.
- Gregory, R., Lichtenstein, S., & Slovic, P. (1993). Valuing environmental resources: A constructive approach. *Journal of Risk and Uncertainty*, 7, 177–197.
- Gregory, R., & Mendelsohn, R. (1993). Perceived risk, dread, and benefits. *Risk Analysis*, 13, 259–264.
- Gregory, R., Keeney, R., & von Winterfeldt, D. (1992). Adapting the environmental impact statement process to inform decision makers. *Journal of Policy Analysis and Management*, 11, 58–75.

- Gregory, R., MacGregor, D., & Lichtenstein, S. (1992). Assessing the quality of expressed preference measures of value. *Journal of Economic Behavior and Organization*, 17, 277–292.
- Gregory, R. (1991). Critical thinking for environmental health risk education. *Health Education Quarterly*, 18, 273–284.
- Gregory, R., Kunreuther, H., Easterling, D., & Richards, K. (1991). Incentives policies to site hazardous waste facilities. *Risk Analysis*, 11, 667–675.
- McDaniels, T., & Gregory, R. (1991). A framework for structuring cross-cultural research on risk and decision making. *Journal of Cross-Cultural Psychology*, 22, 103–128.
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- Gregory, R., Mendelsohn, R., & Moore, T. (1989). Measuring the benefits of endangered species preservation: From research to policy. *Journal of Environmental Management*, 29, 399–407.
- Gregory, R., Niemi, E., & Mendelsohn, R. (1989). A model for evaluating the impacts of forest management regulations. *Journal of Environmental Management*, 29, 129–144.
- Furby, L., Gregory, R., Slovic, P., & Fischhoff, B. (1988). Electric power transmission lines, property values, and compensation. *Journal of Environmental Management*, 27, 69–83.
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- Gregory, R. (1987). Nonmonetary measures of nonmarket fishery resource benefits. *Transactions of the American Fisheries Society*, 116, 374–380.
- Gregory, R., & Furby, L. (1987). Auctions, experiments and contingent valuation. *Public Choice*, 55, 273–289.
- Gregory, R., & Lichtenstein, S. (1987). A review of the high-level nuclear waste repository siting analysis. *Risk Analysis*, 7, 219–223.
- Gregory, R., & McDaniels, T. (1987). Valuing environmental losses: What promise does the right measure hold? *Policy Sciences*, 20, 11–26.
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SELECTED BOOK CHAPTERS

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- Slovic, P., Gregory, R., Frank, D., & Västfjäll, D. (2015). Confronting the collapse of humanitarian values in foreign policy decision making. In J. Persson (Ed.) *Against boredom*. Lidingö, Sweden: Fri Tanke Förlag.

- Gregory, R., & Dieckmann, N. F. (2014). Communicating about uncertainty in multistakeholder groups. In J. Arvai & L. Rivers (Eds.), *Effective risk communication* (pp. 56–72). New York: Routledge.
- Riley, S. J., & Gregory, R. (2012). Decision making in wildlife management. In D. J. Decker, S. J. Riley, & W. F. Siemer (Eds.), *Human dimensions of wildlife management* (2nd ed., pp. 101–112). Baltimore, MD: Johns Hopkins University Press.
- Gregory, R., Failing, L., & Long, G. (in press). Identifying objectives and attributes for biosecurity planning. In T. Walshe (Ed.), *Methods for invasive species risk analysis and management*. Cambridge University Press.
- Arvai, J., Gregory, R., & Zaksek, M. (2008). Improving management decisions. In W. Martin, C. Raish, & B. Kent (Eds.), *Wildfire risk: Human perceptions and management implications* (pp. 173–193). Washington DC: Resources for the Future.
- Gregory, R., & McDaniels, T. (2005). Improving environmental decision processes. In G. D. Brewer & P. S. Stern (Eds.), *Decision making for the environment: Social and behavioral science research priorities* (pp. 175–199). Washington, DC: National Academies Press.
- Gregory, R. (2004). Valuing risk management choices. In T. McDaniels & M. J. Small (Eds.), *Risk analysis and society: An interdisciplinary characterization of the field* (pp. 213–250). New York: Cambridge University Press.
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- Gregory, R. (1999). Identifying environmental values. In M. English & V. Dale (Eds.), *Tools to aid environmental decision making* (pp. 32–58). New York: Springer-Verlag.
- Slovic, P., & Gregory, R. (1999). Risk analysis, decision analysis, and the social context for risk decision making. In J. Shanteau, B. A. Mellers, & D. A. Schum (Eds.), *Decision science and technology: Reflections on the contributions of Ward Edwards* (pp. 353–365). Boston: Kluwer Academic.
- Gregory, R. (1992). A decision framework for managing the risks of deliberate releases of genetic materials. In A. Rosenfield & R. Mann (Eds.), *Dispersal of living organisms into aquatic ecosystems* (pp. 421–434). College Park: University of Maryland.
- Gregory, R. (1992). Implications of public perceptions of hazardous materials on risk management. In D. G. Levine & A. C. Upton (Eds.), *Management of hazardous agents: Vol. 2: Social, political, and policy aspects* (pp. 69–79). Westport, CT: Praeger.
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- Lichtenstein, S., Gregory, R., Slovic, P., & Wagenaar, W. A. (1990). When lives are in your hands: Dilemmas of the societal decision maker. In R. M. Hogarth (Ed.), *Insights in decision making: A tribute to Hillel J. Einhorn* (pp. 91–106). IL: University of Chicago.
- Gregory, R. (1989). Improving risk communication: Questions of content and intent. In W. Leiss (Ed.), *Prospects and problems in risk communication* (pp. 71–80). Ontario, Canada: University of Waterloo.
- Gregory, R., & Bishop, R. C. (1988). Willingness to pay or compensation demanded: Issues in applied resource valuation. In G. L. Peterson, B. L. Driver, & R. Gregory (Eds.), *Amenity resource valuation: Integrating economics with other disciplines* (pp. 135–141). State College, PA: Venture.

BOOKS

- Failing, L., Gregory, R., Long, G., & Moore, B. (2019). *The decision playbook: Making thoughtful choices in a complex world* (Teachers' ed.). Vancouver: GutsNHeads Project.
- Gregory, R., Failing, L., Harstone, M., Long, G., McDaniels, T., & Ohlson, D. (2012). *Structured decision making: A practical guide to environmental management choices*. Chichester, West Sussex, UK: Wiley-Blackwell.
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Editorials and op-eds, radio interviews, conference presentations, magazine articles, videos and You Tube talks, and other opinion pieces available on request. Additional information is available on the Decision Research, Arithmetic of Compassion website: <https://www.arithmeticofcompassion.org/>. and at the Delta Schools website: visit <www.deltalearns.ca> and click on the Decision Skills section.