

CURRICULUM VITAE FOR PATRICIA ANN EGAN COMELLA, J.D.

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SURNAME COMELLA

FIRST NAME(S) PATRICIA ANN EGAN

Affiliation and official address:

Independent Consultant (Consensus Building, Organizational Functioning and Structure)

11 Hatsawap Road

Cambridge Maryland 21613 USA

Tel: +1-410-228-1671; Cell +1-443-521-9677

E-Mail: pacomella@gmail.com

Blog: <http://choptankperspectives.wordpress.com>

Education (degrees, dates, universities)

- *Juris Doctor (J.D.), 1987, Georgetown University Law Center, Washington DC USA*
- *Bachelor of Arts (B.A.), Mathematics, cum laude, with Honors in Mathematics, 1962, Hofstra University, Hempstead NY USA*
- *Part-time Graduate Studies in Computer Science & Probability Theory—no degree, 1962-1975, University of Maryland, College Park MD USA and The Catholic University of America, Washington DC USA*

Career/Employment (employers, positions and dates)

- **Fully Retired from compensated employment in 2016 to engage in *pro bono* activities related to life on the Eastern Shore of Maryland, The Murray Bowen Archives Project & Dorchester Citizens for Planned Growth (see below, “Pro Bono Service to the Community”)**

Self-Employed, Independent Consultant (following retirement from U.S. Government), 2008-2015

- Consensus-based Negotiations
- Societal Studies with Bowen Theory

AN & Associates, LLC, Baltimore Maryland 21201, USA, 2011-2015

- Provide consulting services to AN & Associates on a project to conduct workshops and seminars and otherwise participate in meetings at the national or regional level, to encourage and assist in the establishment of national or regional infrastructure in support of nuclear security
- Participated to date in four (4) regional workshops and seminars in Colombia, Chile, Costa Rica and Malaysia.
- Prepared documents and instruments to support the workshops, delivered presentations during the workshops and participated in related discussions and seminars concerning infrastructural development.

International Atomic Energy Agency (IAEA), 2008-2011, 2013

- Examination of linkages between international instruments relevant to nuclear security and *Nuclear Security Fundamentals: Objective and Essential Elements of a State's Nuclear Security Regime*.
- Provided drafting services from inception through the 2nd Technical Meeting for: “Fundamentals of a State's Nuclear Security Regime: Objective and Essential Elements.” Advised consultants meetings & technical meetings regarding drafting & negotiating history.
- Provided initial drafting services for: “IAEA Legal Series No. 4, The International Legal Framework for Nuclear Security.”
- Provided initial drafting services for Module 6 of a curriculum for a course entitled, “Introduction to Nuclear Security.” Module 6 addressed the “National Legal Framework Governing Nuclear Security.” The course materials were to be translated into Arabic for presentation to Arab security officials.

U.S. Department of State, Washington DC USA, Senior Foreign Affairs Officer, 1998-2007

- *Amendment of the Convention on the Physical Protection of Nuclear Material (CPPNM) (1999-2005)*: Architect of multi-year strategy that systematically built multilateral support for revision, consensus recommendation on scope of revision, & adoption of the Amendment on July 8, 2005 at a Diplomatic Conference of States Parties, meeting in Vienna at the IAEA.
 - Member, U.S. Delegation to IAEA Expert Meeting considering revision question.
 - Head, U.S. Delegation to Working Group of IAEA Expert Meeting formulating revision recommendations.
 - Alternate Head, U.S. Delegation to IAEA Drafting Group preparing CPPNM amendment proposal.
 - Alternate Head, U.S. Delegation to Diplomatic Conference to amend the CPPNM.
- *Other IAEA-related activities*:
 - Served as legal & regulatory expert on IPPAS missions to Kazakhstan, Thailand & Egypt.
 - Participated in IAEA-convened expert groups to develop recommendations & guidance to Member States on physical protection & nuclear security, including development of a design basis threat and initial work on nuclear security fundamentals.
 - Invited Guest lecturer regarding “International Legal Framework for Nuclear Security” at IAEA/Argonne National Laboratory *Seminar on Nuclear Security for Nuclear Security (for Managers and Decision Makers)*, Argonne, October 31, 2006.
 - Invited Guest lecturer to May 2006/November 2004/September 2003/May 2002/May 2000: IAEA's 15th, 16th, 17th, 18th & 19th *International Training Course on the Physical Protection of Nuclear Facilities and Nuclear Materials*, Albuquerque, NM USA.
- *Other nuclear security-related activities*: Served as legal and regulatory expert for bilateral physical protection visits to Argentina, Belgium, France, Japan, Mexico, Netherlands, Portugal, Switzerland, United Kingdom; participated in formulation of U.S. views on IAEA activities in the area of nuclear security. Served as Head of Delegation for the visits to Portugal and UK.
- *Invited Presentations on Strengthening the International Nuclear Security/Physical Protection Regimes*:

- June 6, 2007. Government of Indonesia Seminar on *Role of the International Legal Framework on Peaceful Uses of Nuclear Energy in Supporting the Indonesian Nuclear Power Program*. Denpasar, Bali, Indonesia. “Contributions of Legislative, Regulatory & Institutional Infrastructure to Sustaining National Nuclear Security Programs.”
 - May 2-5, 2007. *NATO Advanced Research Workshop on Prevention, Detection and Response to Nuclear and Radiological Threats*. Yerevan, Armenia. “Contributions of Legislative, Regulatory & Institutional Infrastructure to Sustaining National Nuclear Security Programs.”
 - November 9, 2006: IAEA/Government of Japan *Seminar on Strengthening Nuclear Security in Asian Countries*, Tokyo, Japan. "The Central Considerations for Design Basis Threat (DBT) in the Context of Increased Terrorist Activity."
 - October 3-6, 2005: *NATO Advanced Research Workshop on Countering Nuclear/Radiological Terrorism*, Yerevan, Armenia. "Implementation of the 8 July 2005 Amendment to the Convention on the Physical Protection of Nuclear Material."
 - November 8-9, 2004: *Asia-Pacific Conference on Nuclear Safeguards and Security*, Sydney, Australia. “Adoption of a Strengthened Convention on the Physical Protection of Nuclear Material (CPPNM).”
 - June 3, 2003, EU-High Level Scientific Conference. Salzburg, Austria. “Strengthening Practices for Protecting Nuclear Material.”
- *Exchange of Nonproliferation Assurances (1999-2003)*: Charted path forward to successful conclusion of complex bilateral negotiations on mechanisms for providing reciprocal nonproliferation assurances, required under U.S. law for nuclear technology transfers.

U.S. Department of State, U.S. Consulate, Ponta Delgada, Azores, Portugal, Vice Consul, 1996-1998

- Head, Consular Section
- Outreach to Portuguese scientific community in the Azores to promote cooperation between U.S. & Portuguese scientists, particularly in the geo- & other natural sciences.

U.S. Department of Energy (DOE), Washington DC USA, Contractor-Consultant, 1994-1995, 1984-1987

- TRW Environmental Systems Services, Regulatory Consultant to Civilian Radioactive Waste Management Program (CRWM), 1995;
- Jupiter Corporation, Management Consultant to International Safeguards Program, 1994-1995;
- Roy F. Weston Company, Regulatory Consultant to CRWM, 1986-1987;
- Battelle Memorial Institute, Regulatory Consultant to CRWM, 1984-1986.

Newman & Holtzinger, P.C., Washington DC USA, Lawyer, 1987-1994

- Resolution of nuclear safety & nuclear prudence issues in state economic regulatory adjudications to determine split between ratepayers & stockholders of the costs of generating electricity that was consumed by the ratepayers.
- Management of regulatory relationships between Federal safety regulator—the U.S. Nuclear Regulatory Commission—and their licensees—the owners of nuclear power plants and various activities involving peaceful uses of nuclear material.
- Business & strategic planning for nuclear power plant owners.

U.S. Nuclear Regulatory Commission, Washington DC USA, Member, Senior Executive Service (SES), 1979-1984 (Office of Nuclear Regulatory Research—Health, Siting & Waste Management Division Deputy Director ; Office of Standards Development—Waste Management Standards Branch Chief); Civil Service (Office of Policy Evaluation, Senior Policy Analyst), 1975-1979

- *Disposal of Radioactive Waste in Geologic Repositories (1979-1984)*: Managed multi-staged, multi-disciplinary rulemaking process to resolve contentious questions associated with establishment of Nuclear Regulatory Commission (NRC) licensing procedures and technical criteria for geologic disposal of high-level radioactive waste (HLW).
- *Organization of Nuclear Regulatory Commission (1975-1979)*:
 - Placement of Resident Inspectors at nuclear power plants.
 - Division of responsibilities between HQ & Regional Offices.
 - Organization of in-house technical training.

National Aeronautics & Space Administration, Goddard Space Flight Center, Greenbelt MD USA, Mathematician, 1962-1975

Pro Bono Service to the Community

Bowen Center for the Study of the Family, Washington DC USA, Member of Faculty, 1993-Summer 2016.

- *Cross-Disciplinary Seminars, Conferences, Programs & Publications about Functioning of Human Social Systems & Institutions as Applications of Bowen Family Systems Theory; e.g.*
 - 2009. Co-Organizer and Moderator of “*Societies, Families and Planet Earth: Exploring the Connections*, a conference jointly sponsored by the Georgetown University’s Department of Sociology and the Bowen Center for the Study of the Family.
 - 1996-2013: Co-Organizer of a series of 6 *Conferences on the Relationship System and Individual Variation in Emotional Functioning* (1996, 2000, 2003, 2006, 2010, 2013).
 - 1997-present: Member, Editorial Consultant to *Family Systems: A Journal of Natural Systems Thinking in Psychiatry and the Sciences*.
 - 2003-2006: Organizer, *Seminar on Societal Emotional Process*.
 - 1997-2004. Co-Organizer, Annual Research Workshops to create collegial forums to discuss conduct of long-term research on human behavior and functioning.
 - 1998. Co-Organizer, *Conference on the Workplace: A Living System*.
 - 1996. Principal Editor, *The Emotional Side of Organizations*.
 - 1995. Co-Organizer, *Conference on Organizations*
 - Ongoing: Lecturer for Bowen Center’s Post-Graduate Program.

The Murray Bowen Archives Project (also dba Leaders for Tomorrow), a 501 (c)(3) public charity, chartered in Virginia, 2008-present

- Member, Board of Directors (2008-present); Vice President (2008-2016)
- Provide advice on organizational functioning and structure in order to implement the mission of the organization’s foremost project, The Murray Bowen Archives Project.

League of Women Voters of the Mid-Shore of Maryland

- Co-Convener (Principal Officer)

Dorchester Citizens for Planned Growth

- Board Member

Honours, Awards, Fellowships, Membership in Professional Societies

- 2005: U.S. Department of State's Superior Honor Award for "extraordinary dedication, resourcefulness, creativity and diplomatic skill in amending the Convention on the Physical Protection of Nuclear Material, strengthening this key instrument in the war against nuclear terrorism."
- Memberships:
 - Licensed to practice law in the State of Maryland, USA (retired).
 - D.C. Bar (retired).

Selected Publications and Presentations

Strengthening the International Nuclear Security Regime

- Comella, Patricia A. "The Role of International Legal Instruments in Ensuring Radioactive Source Security." *Laying the Grounds for 2012: Opportunities for Nuclear Non-Proliferation & Nuclear Security*. Amman, Jordan, November 29-December 1, 2011.
- Comella, Patricia A. "Essential Elements for Implementing a Nuclear Security Regime." *International Symposium on Nuclear Security*. Vienna, Austria, 30 March-3 April 2009.
- Comella, Patricia A. 2008. "Contributions of Legislative, Regulatory and Institutional Infrastructures to Sustaining National Nuclear Security." *Prevention, Detection and Response to Nuclear and Radiological Threats, 95-101*. The Netherlands: Springer Verlag.

Amendment of the Convention on the Physical Protection of Nuclear Material (CPPNM)

- Comella, Patricia A. 2006. "Implementation of the 8 July 2005 Amendment to the Convention on the Physical Protection of Nuclear Material." *Countering Nuclear and Radiological Terrorism*, 31-45. The Netherlands: Springer Verlag.

Presentations published in the Proceedings of the Institute of Nuclear Materials Managements (INMM):

- Comella, Patricia A. et al., *Convention on the Physical Protection of Nuclear Material*, 41st Annual Meeting of the INMM, July 16-20, 2000.
- Comella, Patricia A. et al., *Revising the Convention on the Physical Protection of Nuclear Material*, 42nd Annual Meeting of the INMM, July 15-19, 2001.
- Comella, Patricia A., *Revising the Convention on the Physical Protection of Nuclear Material*, 43rd Annual Meeting of the INMM, June 23-27, 2002.
- _____. *Revising the Convention on the Physical Protection of Nuclear Material—Chapter IV*, 44th Annual Meeting of the INMM, July 13-17, 2003.
- _____. *Revising the Convention on the Physical Protection of Nuclear Material—Chapter V*, 45th Annual Meeting of the INMM, July 18-22, 2004.
- _____. *Revising the Convention on the Physical Protection of Nuclear Material—Chapter VI*, 46th Annual Meeting of the INMM, July 10-14, 2005.
- _____. *2005 Amendment to the Convention on the Physical Protection of Nuclear Material and the International Recommendations on Physical Protection of Nuclear Material and Facilities in INFCIRC/225/Rev.4*, 47th Annual Meeting of the INMM, July 16-20, 2006.
- _____. *Legislative, Regulatory & Infrastructure Contributions to Sustainable National Physical Protection Regimes*. 48th Annual Meeting of the INMM. July 11, 2007.

Selected Publications & Presentations regarding Applications of Bowen Family Systems Theory (BFST) to Naturalistic Observations of Human Behavior and Emotional Functioning in the Social Systems to which Humans Belong and also regarding The Murray Bowen Archives Project of Leaders for Tomorrow

- Comella, P.A., 2018. Invited Presentation, "What Murray Bowen (1913-1990) Gave the World—Then & Now" 2nd Int'l Conference on Bowen Family Systems Theory. The Hong Kong Polytechnic University.
- _____. 2016. "Conversations with the Faculty: Reactivity Factors in the Relationship between a Society & Its Sustaining Environments." Bowen Center for the Study of the Family (BCSF).
- _____. 2015. "Exploring Bowen's Societal Concept & Regression Hypothesis." Rutgers University BSFT Postgraduate Program.
- _____. 2014. "Formulating Public Policy in Times of Regression." *Family Systems Forum*, 15:4, 3-8, 12.
- _____. 2013. "Governance of Human Social Systems from the Natural Systems Perspective of Bowen Family Systems Theory." 6th Variation Conference of the BCSF.
- _____. 2013. "The Power of Bowen Family System Theory to Address Public Policy Questions." *Family Systems Forum*, 15:1, 1-10, 12.
- _____. 2012. "Functions of Social Groups." *Family Systems Forum*, 14:2, 1-2, 13-16.
- _____. 2011. "Observing emotional functioning in human relationship systems: Lessons from Murray Bowen's writings." *Bringing systems thinking to life: Expanding the horizons for Bowen family systems theory*. New York: Taylor & Francis Group.
- _____. 2010. "Some Thoughts on a Beginning Theory about Society as an Emotional System." *Family Systems Forum*, 12:1, 1-2, 5-11.
- _____. 2009. "Emotional process in society: the eighth concept of Bowen family systems theory." *Family Systems Forum*, 11:2, 1-2, 7-9.
- _____. 2006. "A Case Study in Observational Blindness." *Family Systems: A Journal of Natural Systems Thinking in Psychiatry and the Sciences (Family Systems)* 7:133-157.
- _____. 2003. "Observations of Reciprocal Functioning in a Challenging Environment." *Family Systems* 6:101-116.
- _____. 2001. "Triangles: The 'Glue' of Bowen Family Systems Theory." *Family Systems* 6:67-76.
- _____. 1997. "Naturally Constrained Social Systems." *Family Systems* 4:19-33.
- _____. 1995. "Natural Selection, Technology, and Anxiety." *Family Systems* 2:138-152.
- Comella, Patricia A., Joyce Bader, Judith S. Ball, Kathleen K. Wiseman and Ruth Riley Sagar, Editors. *The Emotional Side of Organizations: Applications of Bowen Theory*. Washington, DC: Georgetown Family Center.
- Bowen, J. and P. Comella, 2011. "The Murray Bowen Archives Project of Leaders for Tomorrow." *Family Systems Forum*, 12:4, 1-2, 9-10.