

# Steven Douglas Fleming

University of North Georgia, 706-867-4411, [sdfleming@ung.edu](mailto:sdfleming@ung.edu)

*NOTE: Items listed in **GREEN** text are currently active; all other items are listed in chronological order.*

## PROFESSOR of the GEOSPATIAL SCIENCE AND INTELLIGENCE

Lewis F. Rogers Institute for Environmental & Spatial Analysis, University of North Georgia

### COLONEL (Retired)

United States Army

*Passion for leveraging leadership, management and innovation experience while valuing character, diversity and collaboration towards developing America's youth for the uncertain world of the 21<sup>st</sup> Century*

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### Executive Summary (Summer 2022)

**EDUCATION:** 1 x PhD; 2 x MAs; 1 x BS; 4 x Military Colleges/Courses. ([Page 2](#))

**LEADERSHIP EXPERIENCE:** Professor of Practice; Academy Professor; Team Leader; Senior Advisor; Team Chief; Group Commander; Chair – Academy Research Council; Battery Commander; Platoon Leader; Senior Team Advisor; Head Officer Representative; Center Director. ([Page 3](#))

**GOVERNANCE EXPERIENCE:** Deputy Department Head; Senior Staff Officer; Operations Officer, Assistant Operations Officer, & Liaison Officer; Budget and Supply Officer; Personnel Officer & Adjutant; Senior Advisory Board Member; Admissions Committee member; Academy Professor Search Committee member; College Steering Committee member; Academy Research Council (ARC) member; Faculty Council member; Math Science Goal Team member; Leadership mentor; Company Academic Counselor; Military Affairs Committee member. ([Page 6](#))

**MANAGEMENT EXPERIENCE:** Senior Staff Officer; Aide-de-Camp; Senior Faculty Mentor; Senior Academic Counselor; Senior Club Mentor. ([Page 8](#))

**ACADEMIC COURSE DEVELOPMENT AND TEACHING EXPERIENCE:** Over 30 x Program/Course Developer/Director and/or Instructor/Lecturer. ([Page 10](#))

**RESEARCH EXPERIENCE & EDITORIAL PARTICIPATION:** Center Director; Advisor [Geolocation Course Development]; Centers Associate Member; Conference Co-Chair; Guest Editor; Academic Advisory Boards member; Editorial Review Boards member; Senior Investigator; Co-Primary Investigator (PI). ([Page 11](#))

**PUBLICATIONS, CONFERENCE PRESENTATIONS & SPEECHES (CP&S):** 6 x Books/Book Chapters/Guides/Tutorials; 15 x Refereed/Invited Journals/White Papers; 15 x Department of Defense (DoD) Technical Reports; 4 x Study Guides; 7 x Conference Proceedings; 10+ Other Publications; 90+ Presentations, Poster Sessions and/or Speeches. ([Page 12](#) – Publications and [Page 18](#) – CP&S)

**FUNDING, SCHOLARSHIPS, ACADEMIC, & MILITARY HONORS:** Funded grants for research & education exceeding \$1.2 million; Induction into Phi Kappa Phi and Gamma Theta Upsilon; 4 x Fully-funded degree programs; Omar Bradley Award for Leadership; 19 x Military Awards (medals). ([Page 26](#))

**SCIENTIFIC AND PROFESSIONAL SOCIETIES OF WHICH A MEMBER & OTHER VOLUNTEERISM:** 12 x Society Memberships. ([Pages 26 and 27](#))

**SECURITY CLEARANCE:** Secret. ([Page 27](#))



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## **DEGREES/EDUCATION WITH DISCIPLINES, DATES, AND INSTITUTIONS**

Ph.D., Geography

Degree awarded: 2004

University of Georgia

Athens, GA 30606

Dissertation Title: Geospatial Information for Joint Military Operations in the Littoral Zone

Advisor: Dr. Roy Welch

M.A., National Security and Strategic Studies

Degree awarded: 1999

Naval War College

Newport, RI 02841

M.A., Geography *Inducted into Phi Kappa Phi*

Degree awarded: 1995

University of Georgia

Athens, GA 30606

B.S., Computer Science (concentration)

Degree awarded: 1985

United States Military Academy

West Point, NY 10996

Naval Command and Staff College, 1999

Newport, RI 02841

Army Command and General Staff College, 1994

Fort Leavenworth, KS 66027

Army Officer Advanced Course, 1989 *Awarded Omar Bradley Award for Leadership*

Fort Bliss, TX 79918

Army Officer Basic Course, 1985

Fort Bliss, TX 79918



## **LEADERSHIP EXPERIENCE**

***Professor of Geospatial Science and Intelligence***, Lewis F. Rogers Institute for Environmental & Spatial Analysis, University of North Georgia, 2022-present.

***Adjunct Professor of the Practice of Spatial Sciences***, Spatial Sciences Institute, University of Southern California, 2015-present.

***Research Professor of Creative Technologies***, Institute for Creative Technologies, University of Southern California, 2018-present.

***Academy Professor***, Department of Geography and Environmental Engineering, West Point, NY, 2004-2005/2006-2008/2009-2015. As a soldier-scholar, charged to lead, govern and manage institutional goals in support of developing future Army officers.

- Perform permanent academic faculty duties focused on mentoring junior faculty and developing and implementing the Geospatial Information Science program (GISc).
- Serve as Program Director when directed (in an acting capacity) of the Geospatial Information Science Program.
- Provide administrative, logistical and staff assistance to the department.
- Serve as the senior cadet academic program coordinator and counselor.
- Evaluate performance of junior faculty and staff personnel.
- Assist in hiring of departmental/program faculty and staff.

*Awarded Army Superior Unit Award (for being rated “Best College in America” in 2009)*

***Chief, Designation Team***, Center for Academic Excellence (CAE) in Geospatial Sciences (GS) Designation Program, West Point, NY, 2015. Charged with conducting a detailed program self-study to support the application for and designation of the GEOINT Program, Geospatial Information Science Program, Department of Geography and Environmental Engineering, West Point, NY.

- Responsible for developing, coordinating and writing a detailed self-study.
- Responsible for coordinating with and delivering appropriate materials to the United States National Geospatial-Intelligence Agency (NGA) and United States Geologic Survey (USGS).

*Program Awarded the designation by the NGA/USGS as a CAE in GS  
 (“no program deficiencies” noted)*

***Head Officer Representative***, Army Women’s Tennis Team, Directorate of Intercollegiate Athletics, USMA, 2005-2014. Charged to assist head women’s tennis coach in total officer development of cadets (players and managers) on the women’s tennis team.

- Responsible for managing 10 officers/staff and their officer representative duties.



- Coordinate administrative support of women's tennis team.
- Travel with team during away matches.

**Director**, Summer Leaders' Experience (SLE), Department of Geography and Environmental Engineering, USMA, 2005-2014. Charged to manage departmental planning and education support of summertime, high school student seminar sessions at West Point.

- Coordinate with USMA admissions office and other USMA agencies for administrative support; design/teach GISc lessons during SLE.

**Chief, Accreditation Team**, GEOINT (Geospatial Intelligence) Certification Program, West Point, NY, 2011. Charged with conducting a detailed program self-study to support the application for and accreditation of the GEOINT Program, Geospatial Information Science Program, Department of Geography and Environmental Engineering, West Point, NY.

- Responsible for developing, coordinating and writing a detailed self-study.
- Responsible for coordinating a site visit by the United States Geospatial Intelligence Foundation (USGIF) evaluation team and the USMA staff.
- Responsible for integrating accreditation certification into the USMA GISc Program.

*Program Awarded GEOINT Certification (“no program deficiencies” noted)*

**Senior Team Leader**, Professional Military Ethic Education, USMA, 2004-2010. Charged to assist in the development of moral and ethical foundations of 125 cadets.

- Responsible for insuring effective preparation and delivery of course material to standard for eight officers/faculty members of honor, “respect for others” and ethics classes.

**Team Leader, Senior Advisor and Senior Staff Officer**, Combined Security Transition Command – Afghanistan, and National Military Academy - Afghanistan, Kabul, Afghanistan, 2005 and 2008. Charged to develop, build and grow a new college (military academy) in a combat zone.

- Responsible for the health, welfare, guidance and performance of 25 servicemen and women. Major specific tasks assigned to the team included:
- Advisement of college President, Provost and staff/faculty on all developmental and operational requirements for the college.
- Planning and management of renovation and new construction of all facilities.
- Evaluation, hiring, professional development and assessment of all college staff and faculty (including adjunct faculty).
- Development of all departments, academic programs, courses, and assessment processes.
- Accession, integration and follow-on development of all students (cadets).



- Coordination and integration of accreditation and other upper-level, collaborative college activities with the Ministry of Defense, the Ministry of Higher Education, Kabul University and other educational institutions.
- Integration of women into the college and into the Afghan National Army (ANA).
- Management of an operating budget in excess of \$20 million in support of the specified nation building tasks and effort.
- Development and implementation of transition/commissioning plan for all graduates.
- Establishment of all administrative, logistical, and security measures required to sustain the US/allied team to standard in a combat zone.

*Awarded Joint Service Achievement Medal*  
*Awarded Afghanistan Campaign Medal (x2)*  
*Awarded NATO Service Medal*  
*Awarded Joint Meritorious Unit Award*

**Group Commander, Training Support Task Force**, III Corps Support Mission, Fort Knox, KY, 2000. Charged to lead a unit in providing mounted maneuver training support for West Point and ROTC cadets.

- Responsible for the health, welfare, guidance and performance of 500 service men and women. Major specific tasks assigned to the team included:
- Prepare for mission through pre-deployment training and administrative pre-deployment activities.
- Deploy all equipment and servicemen and women to Fort Knox from three separate locations (Texas, Kansas and Colorado).
- Safely prepare for and conduct training for 2000 cadets and soldiers.
- Manage a training/operating budget in excess of \$750K.
- Manage all administrative functions of deployment, including major tasks of lodging, feeding, and personnel administration.

*Awarded Meritorious Service Medal*

**Battery Commander**, Air Defense Battery, 25<sup>th</sup> Infantry Division, Schofield Barracks, HI, 1992-1993. Charged to lead a unit to "be able to fight, win and return from any conflict in defense of our nation and her allies."

- Responsible for the health and welfare of 119 soldiers.
- Responsible and accountable for over \$15 million worth of equipment.
- Required to annually budget over \$600K in support of all unit missions.
- Required to establish the administrative, logistical, and security disciplines necessary to sustain a unit to standard -- in combat and in garrison.

*Awarded Meritorious Service Medal*  
*Awarded Honorable Order of Saint Barbara Medal*



**Platoon Leader**, Air Defense Platoon, Fort Bliss, TX, 1986-1988. Charged to lead a unit to "be able to fight, win and return from any conflict in defense of our nation and her allies."

- Responsible for the health and welfare of 40 soldiers.
- Responsible and accountable for over \$4 million worth of equipment.
- Required to establish the administrative, logistical, and security disciplines necessary to sustain a platoon to standard.

*Awarded Army Achievement Medal (x2)*

### **GOVERNANCE EXPERIENCE**

**Chair, Academic Advisory Board**, United States Geospatial Intelligence Foundation, 2018-present.

**Chair, Academic Planning Committee**, United States Geospatial Intelligence Foundation, 2018-present.

**Faculty Advisory Board Member**, Intelligence Community - Center for Academic Excellence (IC-CAE) – USC, Office of the Director of National Intelligence (ODNI), 2019- present.

**Research Professor**, Institute for Creative Technologies - USC, 2017-present.

**Chair, Faculty Merit Review Committee**, Spatial Sciences Institute - USC, 2015-present.

**Chair, Faculty Promotions Committee**, Spatial Sciences Institute - USC, 2015-present.

**Chair, Coalition of Geospatial Organizations (COGO) Board**, 2021-present.

**Modeling, Simulation and Gaming Working Group Member**, United States Geospatial Intelligence Foundation, 2019-present.

**Coalition of Geospatial Organizations (COGO) Board Member**, 2017-present.

**Institute Director's Consultative Committee Chair**, Spatial Sciences Institute - USC, 2020.

**GEOINTEgration Summit 2020 Organizing Committee Member**, United States Geospatial Intelligence Foundation, 2020.

**Faculty PhD in PHP Candidate Review Committee**, Spatial Sciences Institute - USC, 2016-2018.

**Admissions Meeting Facilitator**, Dornsife College of Letters, Arts & Sciences - USC, 2017.

**Scholarship Committee**, Dornsife College of Letters, Arts, & Sciences - USC, 2016-2017.



***Institute Director's Consultative Committee Chair***, Spatial Sciences Institute - USC, 2015 and 2021.

***Deputy Department Head***, Department of Geography and Environmental Engineering, West Point, NY, 2012-2015. As a soldier-scholar, serve unit as second-in-charge of the Department of Geography and Environmental Engineering, assisting in all matters regarding governance of the same.

- Perform permanent academic faculty duties focused on mentoring junior faculty and developing and implementing the department's academic programs.
- Serve as Department Head when directed (in an acting capacity).
- Coordinate and integrate operational, administrative, logistical and staff assistance to the department.
- Hire and evaluate performance of departmental support staff
- Manage and maintain departmental infrastructure.

***Awarded Legion of Merit Medal***  
***Awarded Military Outstanding Volunteer Service Medal***  
***Awarded Presidential Letter of Appreciation***

***Budget and Supply Officer***, Department of Geography and Environmental Engineering, USMA, 2005-2015.

- Responsible for over \$700,000 of annual spending.
- Responsible for management of all operations and management purchases, lab maintenance purchases, print purchases, faculty/staff travel, and non-appropriated fund accounts.
- Responsible for management of grant and project order spending in the department.

***Leadership mentor***, Military Leadership Course, USMA, 2006-2015.

***Senior Advisory Board Member, History of Warfare E-text Project***, USMA, 2012-2015.

***Academy Research Council (ARC) member***, USMA, 2005-2015.

***USMA Faculty Council member***, USMA, 2004-2015.

***Admissions Committee member***, USMA, 2004-2005 and 2010-2014.

***Academy Professor Search Committee member***, USMA, 2013.

***National Military Academy – Afghanistan Steering Committee member***, USMA, 2007-2012.



*Math Science Goal Team member, USMA, 2006-2009.*

*Company Academic Counselor, USMA, 2005-2007.*

*Operations Officer, Assistant Operations Officer, and Liaison Officer, Air Defense Battalion, Fort Hood, TX, 1999-2000; Schofield Barracks, HI, 1990-1992; Fort Bliss, TX, 1988.*

- Responsible for all operations of a digitized Air Defense battalion. Responsible for training, plans and the tactical operations of all assigned weapon systems and associated support equipment operated by 532 personnel stationed at both, Fort Hood, Texas and Fort Carson, Colorado.
- Responsible for planning, employment, control, and synchronization of the division's air defense assets during all exercises and operations.
- Responsible for developing the long and short-range training plans, to include training management cycles, training evaluations, gunneries, STRAC qualifications, Force XXI initiatives, and modernizations.
- Responsible for planning and executing the continuing transition of the unit to first fully digital SHORAD Divisional Air Defense Battalion in the Army.

*Awarded Army Commendation Medal*

*Personnel Officer and Adjutant, Air Defense Battalion, Fort Bliss, TX, 1988-1990.*

- Responsible for personnel management of 613 authorized soldiers and administrative operations of the unit, to include managerial supervision of the Personnel Administrative Center.
- Exercise staff responsibility for safety, legal and medical programs.
- Manage officer and soldier evaluation systems.
- Advise the commander on personnel strength issues in garrison/tactical situations.
- Advise commander in overall unit cohesion and command climate.
- Responsible for preparing personnel estimates and personnel annexes.
- Responsible for coordinating unit social functions and events.

*Awarded Army Commendation Medal*

### **MANAGEMENT EXPERIENCE**

*Coordinator for “Use of Drones in Education (SSCI 220L)”, USC, 2020-present.*

*Coordinator for “Use of Drones in Education (SSCI 587)”, USC, 2015-2018.*

*SSI Participation Coordinator for LA Hackathon, USC, 2017.*

*Content Exchange Coordinator for USGIF’s State and Future of GEOINT, USC, 2017.*





***SSI/ICT Event Coordinator for NGA Director's Visit (Mr. Cardillo)***, USC, 2017.

***Senior Faculty Mentor***, Center for Faculty Excellence (CFE), USMA, 2009-2015.

- Coordinate CFE program goals and administration with D/GENE.
- Evaluate and provide feedback on rotating faculty performance in the classroom.

***Senior Academic Counselor***, Geospatial Information Science Program, Department of Geography and Environmental Engineering, USMA, 2004-2015.

***Senior Club Mentor***, Fellowship of Christian Athletes (FCA), USMA, 2004-2015.

***Senior Staff Officer*** (Division Staff), Air Defense, Fort Hood, TX, 2000-2001 Charged to represent the commander for all the Division air defense operations for an organization in excess of 10,000 personnel.

- Responsible for planning and implementing the transition plan for divisional air defense systems to the Digital Force.
- Act as a strategic and operational planner on the Division Planning Team (DPT) and assist with the evaluation of subordinate units in the organization.
- Supervise twelve soldiers and their use of assigned equipment valued at over \$3 million.

***Aide-de-Camp*** to the college president (Superintendent), USMA, West Point, NY, 1997-1998.

- Responsible for the executive services to the Superintendent.
- Serve as the primary interface between USMA commander and a 1,000 member staff and faculty.
- Coordinate all interaction of commander with outside agencies to include Department of the Army staff.
- Coordinate the administrative and logistical support activities of the Superintendent's personal staff.
- Manage the Superintendent's calendar, staff actions, and correspondence.
- Coordinate and execute all travel requirements including billeting, transportation, and lodging.
- Responsible for property accountability, security and maintenance of an historic office and set of quarters, including a priceless museum collection.
- Supervise enlisted house staff, catering and visitor billeting in the GO's quarters.

***Awarded Meritorious Service Medal***

**ACADEMIC COURSE DEVELOPMENT/DIRECTORSHIP/INSTRUCTIONAL  
EXPERIENCE**

***Course Developer***, Seminar in Human Security, Geospatial Intelligence, and Policy Making (SSCI 410), USC, 2020-present.

***Program Developer***, Graduate-level Certificate in Remote Sensing for Earth Observation, USC, 2020-present.

***Program Developer***, Undergraduate-level Bachelor of Science in Human Security and Geospatial Intelligence, USC, 2019-present.

***Program Developer***, Graduate-level Master of Science in Human Security and Geospatial Intelligence, USC, 2017-present.

***Program Developer***, Undergraduate-level Minor in Human Security and Geospatial Intelligence, USC, 2017-present.

***Course Developer/Course Lead/Instructor***, Spatial Data Acquisition using Drones (SSCI 220L), USC, 2019-present.

***Course Instructor***, Maps in the Digital World (SSCI 135g), USC, 2019-present.

***Course Instructor***, Directed Research for Graduate Student (SSCI 590), USC, 2019-present

***Course Developer/Course Lead/Instructor***, Capstone – Applied Geospatial Intelligence Problem Solving (SSCI 595), USC, 2017-present.

***Course Developer/Instructor***, Human Security and Disaster Management (SSCI 577), USC, 2017-present.

***Course Developer/Course Lead/Instructor***, Geospatial Intelligence (SSCI 401L), USC, 2017-present.

***Course Lead/Instructor***, Geospatial Intelligence Tradecraft (SSCI 579), USC, 2015-present.

***Thesis Committee Primary Advisor (30+ students)*** (SSCI 594B/Z), USC, 2015-present.

***Thesis Committee Member*** (SSCI 594B/Z), USC, 2015-present.

***Guest Lecturer***, Various SSI Courses, USC, 2015-present.

***Course Instructor***, CAE IC Summer Intelligence Community Student Internship, USC, 2021.

***Guest Lecturer/Course Developer***, Geospatial Intelligence (GISC 4800K), University of North Georgia, 2020 and 2021.

***PhD Dissertation Committee Member***, USC, 2016-2019.

***Course Developer***, Remote Sensing Applications and Emerging Technologies (SSCI 576), USC, 2019.

***Course Lead/Instructor***, Remote Sensing for GIS (SSCI 588), USC, 2015-2018.

***Instructor***, Concepts for Spatial Thinking (SSCI 581), USC, 2015.

***Course Developer/Director/Instructor***, Military Geospatial Operations, USMA, 2007-2015.

***Course Director/Instructor***, Cartography, USMA, 2010-2014.

***Assistant Course Developer***, Geo-location Systems and Processes (classified material), National Security Agency (NSA), 2013-2014.

***Course Developer/Instructor***, Physical Geography, USMA, 1995-1997 and 2004-2009.

***Course Director/Instructor***, Remote Sensing, USMA, 2005-2010.

***Course Director/Instructor***, Principles of Surveying, USMA, 1995-1997.

***Course Director/Instructor***, Photogrammetry, USMA, 1995-1997.

***Course Director/Instructor***, Advanced Individual Study in Geospatial Information Science, USMA, 1995-1998 and 2009 {♦}.



**Course Director/Instructor**, Special Topic in Geography and Environmental Engineering, USMA, 2005-2007 {♦}.

**Instructor**, Geographic Information Systems, USMA, 2011-2013.

**Instructor**, Seminar in Environmental Science, USMA, 1996-1997.

**Lecturer**, Physical Geography, *GISc at USMA and the Army*, USMA, 2004-2014.

**Lecturer**, Environmental Geography, USMA, 2005-2007.

**Lecturer**, Oconee County High School, Watkinsville, GA, *GIS in the Workplace*, 2004.

**Lecturer**, University of Georgia, *Military Use of Maps*, UGA, 2003.

**Lecturer**, University of Georgia, *Surveying in the Military*, UGA, 2001.

**Secondary Instructor**, ASPRS Conference, *Use of Remote Sensing Software*, 1994.

(NOTE: {♦} Course often linked to field internships that reinforced classroom learning)

### **RESEARCH EXPERIENCE AND EDITORIAL PARTICIPATION**

**Associated Faculty member**, Center for Geospatial Research (CGR), University of Georgia, 2021-present.

**Industry Advisory Council for Education**, Hexagon, 2018-present.

**Essential Body of Knowledge (GEOINT) Advisory Board member**, United States Geospatial Intelligence Foundation (USGIF), 2017-present.

**Certification Governance Board (CGB) member**, United States Geospatial Intelligence Foundation (USGIF), 2016-present.

**Academic Program Accreditation Review Board member**, United States Geospatial Intelligence Foundation (USGIF), 2015-present.

**Academic Advisory Board member**, United States Geospatial Intelligence Foundation (USGIF), 2011-present.

**Editorial Review Board member**, International Society of Photogrammetry and Remote Sensing, 2009-present.

**Editorial Review Board member**, International Journal of Applied Geospatial Research, 2009-2017.

**Guest Editor**, Special Edition – *Geospatial Applications for Military and Homeland Security Operations*, International Journal of Applied Geospatial Research, 2011-2016.

**Senior Investigator**, (1) On-line Course Learning (USMA's Geospatial Science courses), 2010-present and (2) iPad Classroom and Lab Study (USMA's Geospatial Science courses), 2011-2015.



**Co-Primary Investigator (PI)**, Terrestrial Imaging (LiDAR and camera imaging systems) in coordination with the NGA, ATEC, RDECOM, Desert Research Institute (Reno, NV) and the Center for Geospatial Research (University of Georgia, Athens, GA), 2008-2015.

**Advisory Board member**, NGA/USGS Centers of Academic Excellence in Geospatial Science, 2014-2015.

**Director**, Center for Environmental and Geographic Sciences, Department of Geography and Environmental Engineering, USMA, 2005-2015. Plan and manage interdisciplinary research across five academic disciplines averaging ~ \$250K of annual research work. Assist in manage Minerva Grant totaling ~ \$250K annually.

**Associate Member**, Center for Language, Culture and Regional Studies, Department of Foreign Languages, USMA, 2013-2015.

**Associate Member**, Center for STEM Education, Department of Physics, USMA, 2011-2015.

**Advisor, Geolocation Course Development**, National Security Agency (NSA), 2012-2014.

**Chair**, Academy Research Council (ARC), USMA, 2010-2012. In this capacity, create and integrate activities of the West Point Institute for Innovation and Development (IID), providing assistance in the management of annual research funding totaling ~ \$22 million.

**Conference Co-Chair**, LiDAR Exploitation, U.S. Southern Command [USSOUTHCOM] (Conducted at West Point, NY), June 2011.

## **PUBLICATIONS**

### ***Books / Book Chapters / Guides / Tutorials***

Fleming, S. 2019. Chapter 6 - Military Geography Research Notes. Geospatial Intelligence: Concepts, Methodologies, Tools, and Applications, IGI Global. Hershey, PA.

Fleming, S., 2012. Final Report - Cartographic Considerations for Planned Maps in the History of Warfare (HI301/HI302) Electronic Textbook. Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S., J. Brockhaus and M. Hendricks. 2009. Chapter 57 - The Role of GIS in Military Strategy, Operations and Tactics. Manual of Geographic Information Systems, ASPRS – American Society for Photogrammetry and Remote Sensing, Bethesda, MD.

Fleming, S., and N. Dieter. 2009. The iPIX Tutorial – A Guide to Collecting 360° Interactive Images, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.



United States Army Engineer School, 2005. SWEAT/IR Book – Infrastructure Reconnaissance. Contributions acknowledged to Infrastructure Information and Data Collection (I2DC) – A Soldier’s Guide by Dacunto, P., B. Doyle, W. Epolito, S. Fleming, M. Guerrie, J. Jordano, L. Klosky, T.J. Lindberg, J. Manous, T. Trainor and R. Welch. Fort Leonard Wood, MO.

Manous, J., 2005. Contributors: P. Dacunto, B. Doyle, W. Epolito, S. Fleming, M. Guerrie, J. Jordano, L. Klosky, T.J. Lindberg, T. Trainor and R. Welch. Infrastructure Information and Data Collection (I2DC) – A Soldier’s Guide. United States Military Academy, West Point, NY.

### ***Refereed / Invited Journals / White Papers***

Blundell, S., Tilton, B., Andrews, C., Fleming, S., Loze, S., Marrou, L., McCullough, K., Moore, R., Shiflett, J., and Simmons, S., 2021. *Advancing the Interoperability of Geospatial Intelligence Tradecraft with 3D Modeling, Simulation, and Game Engines*. Modeling, Simulation & Gaming (MS&G) Working Group – United States Geospatial Intelligence Foundation, Reston, VA.

Brickhouse, M, C. Kantor, S. Fleming, R. Schrenk, and B. Caniano, 2020. *Gen Z on Stage! The contribution of professional events to addressing GEOINT’s Generational Shift*. Trajectory – The Official Magazine of USGIF, United States Geospatial Intelligence Foundation, Reston, VA.

Knowles, J, S. Fleming, and R. McAlinden. 2020. *Expanding the utility and interoperability of rapidly generated terrain data sets from the modeling and simulation community to support larger GEOINT needs*. 2020 State and Future of GEOINT Report, United States Geospatial Intelligence Foundation, Reston, VA.

Luttrell, J and S. Fleming. 2020. *Artificial Island Development in the South China Sea: Overcoming Data-Scarcity of New Features through Shadow Analysis*. Case Studies in the Environment, Special Edition. University of California Press, Berkeley, CA.

Loyola, L.C., Knowles, J.T., Marx, A.J., McAlinden, R., & Fleming, S.D. 2019. *Research and Teaching Applications of Remote Sensing Integrated with GIS: Examples from the Field*. Journal of Geographic Information System, 2019-11, 670-682, Scientific Research Publishing.

Smith, S., C. Elliot, and S. Fleming 2019. GIS Cafe Special Report: Digital Twin Technology Offers a Mirror Image for Productivity of the Future (online). GIS Café, San Jose, CA.

Fleming, S, R. McAlinden, M O’Banion, C. Oxendine, and W. Wright. 2019. *Rapid Terrain Generation for Visualization, Simulation, Mission Rehearsal, and Operations*. 2019 State and Future of GEOINT Report, United States Geospatial Intelligence Foundation, Reston, VA.



Fleming, S, E. Sedano, M. Carlin, R. Tracy, and J. Walker. 2018. *The Ethics of Volunteered Geographic Information for GEOINT Use*. 2018 State and Future of GEOINT Report, United States Geospatial Intelligence Foundation, Reston, VA.

Hibbs, K, R. Farnsworth, S. Fleming, M. Hauck, W. Lu. 2018. *Geospatial Thinking Is Critical Thinking*. 2018 State and Future of GEOINT Report, United States Geospatial Intelligence Foundation, Reston, VA.

Fleming, S, B. Janocha, L. Machado. 2017. *The Fluid Employee: Adaptability in the 21st Century*. 2017 State and Future of GEOINT Report, United States Geospatial Intelligence Foundation, Reston, VA.

Bacastow, T., S. Fleming, T. Stefanidis, and D. Bellafigliore. 2016. *GEOINT Beyond the IC: Academia, Training and Certification*, 2016 State of GEOINT Report, United States Geospatial Intelligence Foundation, Reston, VA.

Fleming, S. 2016. *Military Geography Research Notes*. International Journal of Applied Geospatial Research, Volume 7, Issue 4, IGI-Global Publishing, Hershey, PA.

Fleming, S., E. McDonald and S. Bacon. 2016. *Military Test Site Characterizations - An Integrated Terrain Analysis Approach*. Military Geosciences and Desert Warfare; Advances in Military Geosciences, 273-295, Springer Science+Business Media.

Fleming, S., T. Jordan, M. Madden, E. Usery and R Welch. 2008. *GIS Applications for Military Operations in Coastal Zones*. ISPRS - Journal of Photogrammetry and Remote Sensing, 64 (2009), 213-222, Elsevier Publishers.

Fleming, S. and T. Jordan. 2007. *Feature Identification from Commercial Satellite Images for Military and Homeland Security Operations in Coastal Zones*. Journal of Applied Remote Sensing, SPIE, Bellingham, WA.

### ***Department of Defense (DoD) Technical Reports***

Fleming, S., M. Anderson and C. Dietz. 2013. Field Technical Report – Camp Pendleton Marine Corps Base Site Characterization, Mapping and Imaging, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S. and M. Anderson. 2012. Field Technical Report – Suriname Test Site Characterization, Mapping and Imaging, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S. and C. Edson. 2011. Field Technical Report – Fort A. P. Hill Test Center Site Characterization, Mapping and Imaging, Center for Environmental and Geographical



Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S, M. Madden, D. Leigh, P. Jackson, D. Menhart and R. Peralta. 2011. An Environmental Analysis of Western Belize for Tropical Testing of Army Material, Equipment and Systems, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY and the Center for Remote Sensing and Mapping Science, Department of Geography, University of Georgia, Athens, GA.

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Fleming, S., T. Rayfield, H. Didier, A. Davis, R. Lennon, E. Mistr and J. Pleasants. 2010. Field Technical Report – Aberdeen Test Center Site Characterization, Mapping and Imaging, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S., I. Irmischer, D. Roux, B. Boxler, A. Moomin, A. Paulo, M. Seese, L. Summerlin, and S. Vaughn. 2009. Field Technical Report – TRTC and YTC Test Site Characterization, Mapping and Imaging, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S., W. Wright, J. Gerschultz, M. Hokenson, C. Pottorff and D. Whitehouse. 2009. Field Technical Report – CRTTC Test Site Characterization, Mapping and Imaging, Center for Environmental and Geographical Sciences, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

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Cold Regions Research & Engineering Laboratory, Engineer Research and Development Center, U.S. Army Corps of Engineers, Hanover, NH.

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King, W. Chris, Palka, E., Fleming, S., Harmon, R., Hendrickx, J., and Juvik, J. 2006. A Technical Analysis of Cerro Tigre and Altos de Pacora, Panama, for Tropical Testing of Army Material, Equipment and Systems, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY and the Environmental Sciences Branch, Engineering and Environmental Sciences Division, USARO, Research Triangle Park, NC.

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### ***Study Guides***

Fleming, S and Gilewitch, D., 2011. *The Army's Wartime Geographic Information Systems and Mapping Applications*. Physical Geography Student Study Guide, Tenth Edition, The McGraw-Hill Companies, Inc., New York, NY.

Thompson, W. 2009. Contributing Authors and Editors: C. Fuhriman, J. Lynch, E. Palka, A. Krakaowka, F. Galgano, D. Gilewitch, J. Henderson, J. Chastain, M. Kimball, S. Fleming, L. Hummel, L. Rios, M. Cuviallo and J. Ridgeway. Physical Geography Student Study Guide, Ninth Edition, The McGraw-Hill Companies, Inc., New York, NY.

Henderson, J., 2008. Editorial Board: M. Cuviallo, H. Didier, S. Dunlap, B. Dunmire, S. Fleming, A. Richmond and L. Rios. Physical Geography Student Study Guide, Eight Edition, The McGraw-Hill Companies, Inc., New York, NY.

Hummel, L., 2005. Editorial Board: Dacunto, P, B. Doyle, W. Epolito, S. Fleming, D. Gilewitch, E. Larkin, C. Oxendine, M. Peguero, L. Rios and M. Senn. Physical Geography Student Study Guide, Fifth Edition, The McGraw-Hill Company, Inc., New York, NY.





### ***Conference Proceedings***

Fleming, S, M. Anderson, C. Dietz, M. Braun, R. Cromartie, A. Kish, and J. Wagner. 2012. *Characterization of Soils and Landforms Critical to Testing Military Equipment*. Published in proceedings of the, 20<sup>th</sup> ARL/USMA Technical Symposium, Florham Park, NJ.

Brockhaus, J, M. Hendricks and S. Fleming. 2005. *Assessment and Evaluation on an Undergraduate GIS Curriculum*. Published in proceedings (CD-ROM) of the 2005 ESRI Educational Users Conference, San Diego, CA.

Hendricks, M., J. Brockhaus and S. Fleming. 2005. *Design and Development of an Urban Tactical Planner Database*. Published in proceedings (CD-ROM) of the 2005 ESRI Educational Users Conference, San Diego, CA.

Shannon, M, G. Sandquist, M. Hendricks, S. Fleming. 2005. *Correlation of US Nuclear Power Plant Sites and Adjacent Population Health Effects*. Published in 13<sup>th</sup> International Conference on Nuclear Engineering. Beijing, China.

Fleming, S and M. Hendricks. 2004. *NGA sponsored GIS research at the United States Military Academy*. Published in proceedings (CD-ROM) of the 2004 NGA Academic Research Symposium. Washington, DC.

Fleming, S. 1997. *GPS Applications in Golf Course Measuring and Mapping*. Published in proceedings of the 1997 ACSM-ASPRS Annual Convention, Seattle, WA.

Fleming, S. 1996. *Integrated Remote Sensing and GIS Techniques for Golf Course Measuring and Mapping*. Published in proceedings of the 1996 ACSM-ASPRS Annual Convention, Baltimore, MD.

### ***Other Publications***

Fleming, S. and T. Bacastow. 2016. *GEOINT: So What and Now What? 2015 State of GEOINT Report*, United States Geospatial Intelligence Foundation, Reston, VA.

Oxendine, C. and S. Fleming. 2015. *Strengthening the 'Geo' in GeoINT, NGA Pathfinder*, Vol. 13, No. 4, National Geospatial-Intelligence Agency, Springfield, VA.

Brockhaus, J., M. Hendricks, S. Fleming, W. Wright and C. Edson. 2011. *Delineation of Roofing Material within an Urban Environment: Integration of WorldView-2 Imagery and Lidar Data*, Geospatial Information Science Program, Department of Geography and Environmental Engineering, United States Military Academy, West Point, NY.

Fleming, S. 2009. *Our Geography Soldiers*, Geography News, Department of Geography, University of Georgia, Athens, GA.



Batson, Douglas E. 2008. Interview with LTC Steve Fleming and follow-on referencing in the text. Registering the Human Terrain: A Valuation of Cadastre, Center for Strategic Intelligence Research, National Defense Intelligence College Press, Washington, DC.

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Fleming, S. 2007. *Everything I Really Needed to Know About Leading Men and Women, I Learned at Bolles*. About Bolles. The Bolles School, Jacksonville, FL.

Fleming, S. 2006. Assessment of the Enterprise Geographic Information System (EGIS) at Yuma Proving Ground (YPG), Center for Environmental and Geographic Sciences, Department of Geography and Environmental Engineering, West Point, NY.

Fleming, S. 2005. *Academy professors spend summer helping Afghan academy – Interview with Mr. Eric S. Bartelt*. The Pointer View (August 26, 2005). United States Military Academy, West Point, NY.

Fleming, S. 2004. *Sharing the Knowledge – Interview with Mr. John Curran*. About Bolles (Fall/Winter 2004). The Bolles School. Jacksonville, FL.

### **CONFERENCE PRESENTATIONS / POSTER SESSIONS / SPEECHES**

Fleming, S., 2022. *Intelligence Agency Speaker Series (Spring 2022 Colloquium)*, Intelligence Community – Center for Academic Excellence (IC-CAE). Los Angeles, CA.

Fleming, S., Hrabar, S., and McCullough, K., 2022. *The Challenges and Opportunities in Mapping Interior Spaces*, Twelfth Annual Los Angeles Geospatial Summit. Los Angeles, CA.

Fleming, S. (Moderator), Round, P., Barber, K., and McCool, J., 2022. *Closing Panel -- How Can You Partner with Industry to Practically Apply Automation, AI and ML, Continuously Enhance the Quality of Your Analysis and Be More Interoperable in Coalition Missions*, DGI 2022 – Geospatial Intelligence for National Security. Twickenham Stadium, England.

Fleming, S. (Moderator), Gelzer, S., Bjorgo, E., and Kargieman, E., 2022. *Panel – How Can You Mitigate Risks to National Security as a Result of Increasingly Frequent Extreme Weather Events*, DGI 2022 – Geospatial Intelligence for National Security. Twickenham Stadium, England.

Fleming, S. (Moderator), Bacastow, T, Root, M, and Green, A, 2022. *Panel – How Can You Partner with Academia and Industry to Attract More Data Scientists into Your Organization and Better Support Greater Automation and Analytic Requirements*, DGI 2022 – Geospatial Intelligence for National Security. Twickenham Stadium, England.



Fleming, S., 2021. *Just Who Will You Be – Keynote Speech for Induction Ceremony*, Gamma Theta Upsilon. (virtual) Los Angeles, CA.

Fleming, S., 2021. *Spatial Sciences/GIS Programs*, Warrior Scholar Project (virtual). Los Angeles, CA.

Fleming, S., 2021. *Panel Moderator – Technological and Economic Security Implications for National Security Panel*. Implications of the COVID-19 Pandemic on National Security Symposium, Dahlonga, GA.

Fleming, S., Metzger, P., McCullough, K., Villahermosa, R., and White, D., 2021. *Is it Real or is it Synthetic: Advances in Reality Capture*, GEOINT Community Forum – The Geospatial Metaverse – Infrastructure, Tradecraft and Applications. Reston, VA.

Pustam, D., Johnson, J., and Fleming, S., 2021. *An Introduction to ArcGIS Mission*, Eleventh Annual Los Angeles Geospatial Summit. Los Angeles, CA.

Fleming, S., Blohm, G., and Garcia, K., 2021. *US Agency Collaboration Case Study – How the US Army and NGA are Working Together to Leverage 3D Data for Future Missions*, DGI 2021 – Geospatial Intelligence for National Security. London, England.

Fleming, S., Godinez, M., Orosz, M., Povinelli, M., and Treverton, G., 2020. Panelist and Seminar Participant – *Intelligence Agency Speaker Series (Fall 2020)*, Intelligence Community – Center for Academic Excellence (IC-CAE). (virtual) Los Angeles, CA.

Watson, K., Brunsvold, C., Fleming, S., Kantor, C., Money, E., Rodriguez, R., and Young, M., 2020. *Panel Discussion entitled, “Building the Perfect Combination of Education and Skillsets,”* URISA GIS-Pro 2020, (virtual) Des Plaines, IL.

Fleming, S., 2020. Master of Ceremonies & Various Roles throughout the Summit (e.g., *State of GEOINT Education Report*, Moderator, etc...), GEOINTegration Summit 2020. (virtual) Reston, VA.

Fleming, S., Bacastow, T., Hurst, P., and Thomas, M., 2020. *Leadership Panel – How Can You Transform Your Training and Tradecraft To Adapt To New Geospatial Intelligence Requirements Post COVID-19?*, DGI Virtual 2020 – Geospatial Intelligence for National Security. (virtual) London, England.

Fleming, S., 2020. *Just Who Will You Be – Keynote Speech for Induction Ceremony*, Gamma Theta Upsilon. (virtual) Los Angeles, CA.

Fleming, S., Bacastow, T., Hurst, P., and Knight, J., 2020. *Conference Discussion – How Can You Attract and Retain Data Scientists when Commercial and Defense Organizations are All Competing for the Same Talent?*, DGI 2020 – Geospatial Intelligence for National Security. London, England.



Fleming, S., 2020. *Academic Case Study – Developing GEOINT Education and Training programs for the Future GEOINT Workforce*, DGI 2020 – Geospatial Intelligence for National Security. London, England.

Zbrog, Matt, 2020. *Expert Interview on the Applications, History, and Future of GIS – Dr. Steven Fleming*, [Online Engineering Programs](#), Sechel Ventures, Half Moon Bay, CA.

Fleming, S., 2019. *Moderator – Young Professionals Panel Discussion: What You Need to Know for Success*, GEOINTEGRATION Summit 2019. Reston, VA.

Fleming, S., 2019. *Podcast - Hexagon Technology in Academia and Research*, HxGN LIVE, Las Vegas, NV.

Fleming, S., 2019. *Filmed Interview - Education Initiatives Using Hexagon Products*, HxGN LIVE, Las Vegas, NV.

Fleming, S., 2019. *Conference Panel – Education vs. Training: GEOINT in an AI-enabled World*, GEOINT 2019. San Antonio, TX.

Fleming, S. and A. Marx, 2019. *Discussion on National Service*, Delta Phi Epsilon - USC's Professional Fraternity for International Relations and Foreign Affairs, Los Angeles, CA.

Fleming, S., 2019. *Just Who Will You Be – Keynote Speech for Induction Ceremony*, Gamma Theta Upsilon, Los Angeles, CA.

Fleming, S., 2019. *Human Security and Geospatial Intelligence Spotlight Webinar on GIST Graduate Programs – Moderator by Dr. Robert Vos*. SSI – USC. Los Angeles, CA.

Fleming, S., B. Tilton, S. O'Brien, and R. Smith, 2019. *Artificial Intelligence, Machine Learning, GIS and Geospatial Technologies*. Ninth Annual Los Angeles Geospatial Summit. Los Angeles, CA.

Fleming, S., 2018. *Interview with Brown University about USC's Academic Programs*. GEOINT 2018. Tampa, FL.

Chen, M., L. Soibelman, R. McAlinden, A. Marx, and S. Fleming, *Photogrammetric Data Classification for the Creation of Virtual Environments and Simulations*, 2019. Annual Conference - American Society for Photogrammetry and Remote Sensing Denver, CO.

Loyola, L, A. Marx, and S Fleming, 2018. *Combining Teaching, Partnerships, and Research in the Field: Lessons Learned from the Spatial Data Acquisition Course (Field Excursion on Catalina Island)*. GIS - Pro & CalGIS 2018. Palm Springs, CA.

Fleming, S., 2018. *Minoring in Human Security and Geospatial Intelligence*, ROTC Units – USC. Los Angeles, CA.



Fleming, S., 2018. *Professional Development Thoughts and Reflections*, Delta Phi Epsilon - USC's Professional Fraternity for International Relations and Foreign Affairs, Los Angeles, CA.

Fleming, S., 2018. *GEOINT at SSI (USC)*, USGIF Academic Advisory Board, Reston, VA.

Fleming, S., 2018. *Workshop Panel - Sustainment, Logistics, and the Urban Environment of 2035*, Institute for Creative Technologies. Playa Vista, CA.

Fleming, S., 2018. *Conference Panel – The Geospatial Analyst* (Panelist with Chris Tucker, Sue Kalweit, and Todd Bacastow), GEOINT 2018. Tampa, FL.

Fleming, S., 2018. *Interview with GIS Café about USC's Academic Programs*. GEOINT 2018. Tampa, FL.

Fleming, S., 2018. *One World Terrain – Lightning Talk*. GEOINT 2018. Tampa, FL.

Fleming, S., 2018. *The GEOINT Profession – A Chat with K-12ers*. Tampa, FL.

Fleming, S., 2018. *Just Who Will You Be – Keynote Speech for Induction Ceremony*, Gamma Theta Upsilon, Los Angeles, CA.

Fleming, S. and R. McAlinden, 2018. *Modeling, Simulation, AR/VR/MR and GEOINT*. SSI Trojan Recharge – USC. Los Angeles, CA.

McAlinden, Ryan, R. Spicer, and S. Fleming, 2017. *Synthetic Training Environment – One World Terrain*, I/ITSEC 2017, Orlando, FL.

Fleming, S., 2017. *Minoring in Human Security and Geospatial Intelligence*, ROTC Units – USC. Los Angeles, CA.

Fleming, S., 2017. *GEOINT at SSI (USC)*, USGIF Academic Advisory Board, Reston, VA.

Fleming, S., 2017. *Conference Keynote - The National System for Geospatial Intelligence* (Panelist with Director Robert Cardillo [NGA] and Mr. Keith Masback [CEO, USGIF]), GEOINT 2017. San Antonio, TX.

Fleming, S., 2017. *Interview with GIS Café about USC's Academic Programs*. GEOINT 2017. San Antonio, TX.

Fleming, S., 2017. *Alumni Spotlight Webinar on GIST Graduate Programs – Moderator by COL[R] Steve Fleming*. SSI – USC. Los Angeles, CA.

McAlinden, R, and S. Fleming, 2017. *Film on Drone Capture - One World Terrain*. ICT – USC. Los Angeles, CA.



Fleming, S. and R. McAlinden, 2017. *Drones and GEOINT*. SSI Trojan Recharge – USC. Los Angeles, CA.

Fleming, S., 2016. *Intersections of Human Security and Geospatial Intelligence – Moderator by COL[R] Steve Fleming - A Roundtable Discussion with GEN[R] David Petraeus, Dr. Steve Lamy, and Dr. Mike Orosz*. Dornsife – USC. Los Angeles, CA.

Fleming, S., 2016. *GEOINT at SSI (USC)*, USGIF Academic Advisory Board, Reston, VA.

Fleming, S., 2016. *Just Who Will You Be*, SSI Brown Bag Lectures – USC. Los Angeles, CA.

Fleming, S., 2016. *Minoring in Human Security and Geospatial Intelligence*, ROTC Units – USC. Los Angeles, CA.

Fleming, S., 2016. *Lessons Learned from Academic Programs for Centers of Academic Excellence in Geospatial Sciences* (Panelist). CAE in GS Meeting, Oak Ridge, TN.

Fleming, S., 2016. *The Digital Rucksack – Knowledge Management for Today's GEOINT Learner* (Workshop Instructor). GEOINT 2016. Orlando, FL.

Fleming, S., 2016. *Interview with GIS Café about USC's Academic Programs*. GEOINT 2016. Orlando, FL.

Fleming, S., 2016. *NGA and USGS Careers Panel at USC* (Moderator). Los Angeles, CA.

Fleming, S. and D. Murdock, 2016. *Enabling Geospatial Intelligence and Geospatial Security* (Keynote Address). Sixth Annual Los Angeles Geospatial Summit. Los Angeles, CA.

Fleming, S., 2015. *GEOINT – It's More Than Just for the Intelligence Community*. Georgia Southern University, Statesboro, GA.

Fleming, S., 2015. *Saint Barbara's Day Ball – 2015* (Guest Speaker). United States Military Academy. West Point, NY.

Fleming, S., 2015. *GEOINT – It's More Than Just for the Intelligence Community*. 2015 Cyber Symposium, United States Coast Guard Academy. New London, CT.

Fleming, S., 2015. *Founder's Day Ball – 2015* (Guest Speaker). West Point Society of Augusta. Augusta, GA.

Fleming, S., 2015. *Founder's Day Ball – 2015* (Guest Speaker). West Point Society of the Piedmont. High Point, NC.

Fleming, S. and J. Brockhaus. 2015. *NGA-sponsored Geospatial Information Science Education Program at the United States Military Academy*. NGA Academic Research Symposium. Washington, DC.



Fleming, S., 2014. *Use of SWIVL in the Digital Classroom*. iPad Symposium, United States Military Academy. West Point, NY.

Fleming, S. and J. Brockhaus. 2014. *NGA-sponsored Geospatial Information Science Education Program at the United States Military Academy*. NGA Academic Research Symposium. Washington, DC.

Fleming, S., 2014. *Chaos Management in a Disconnected World* (Moderator). GEOINT 2014. Tampa, FL.

Fleming, S., 2014. *Optimizing Big Data & Data Management Systems for Chaos Management* (Moderator). GEOINT 2014. Tampa, FL.

Fleming, S., 2013. *GPS, GIS, and Other Cool Digital Geography*. STEM Career and College Conference - McKinley Technology High School. Washington, D.C.

Hendricks, M., J. Brockhaus, and S. Fleming. 2013. *Plebe Parent Weekend Reference and Parking Map*. 2013 ESRI Educational Users Conference – Map Gallery. San Diego, CA.

McDonald, E and S. Fleming, 2013. *Military geoscience for engineers*. 10<sup>th</sup> International Conference on Military Geosciences, Aviemore, Scotland.

Fleming, S, M Anderson, C Dietz, M. Braun, R Cromartie, A. Kish and J Wagner. 2012, *Characterization of Soils and Landforms Critical to Testing Military Equipment*. 20<sup>th</sup> ARL/USMA Technical Symposium, Florham Park, NJ.

Fleming, S. 2012. *Military Test Site Characterizations*. Yuma Proving Ground Test Director's Workshop. Yuma, AZ.

McDonald, E and S. Fleming, 2012. *Developing Science-Based Testing: Characterizing the Physical Environment with Enough Detail to Support Test Procedures*. 28<sup>th</sup> Annual National Test and Evaluation Conference, Hilton Head, SC.

Fleming, S., 2012. *Building Tighter Connections Between Geography and Geoscience Programs, Geography and Geoscience: Connection Points for Complimentary Disciplines*. Association of American Geographers – Annual Conference, New York, NY.

Fleming, S., 2011. *The Future of GEOINT Professional Development – Focus on Education*. GEOINT 2011 Symposium. San Antonio, TX.

Fleming, S., J. Brockhaus and M. Hendricks. 2011. *Geospatial Information Science Program and Admissions Processes at the United States Military Academy*. 2011 ESRI Educational Users Conference, San Diego, CA.



Fleming, S., 2011. *Military Test Site Characterizations - An Integrated Terrain Analysis Approach*. 9<sup>th</sup> International Conference on Military Geosciences, Las Vegas, NV.

Fleming, S. 2010. *Geospatial Information Science Education Program at the United States Military Academy*. Service Academy Roundtable: Advancing the Geospatial Intelligence Mission. GEOINT Conference, New Orleans, LA.

Fleming, S., J. Brockhaus and M. Hendricks. 2010. *Geospatial Information Science Program and Admissions Processes at the United States Military Academy*. 2010 ESRI Educational Users Conference. San Diego, CA.

Wright, W., M. Cuvillo, S. Fleming and M. Hendricks. 2010. *Terrain Association and Land Navigation Visualization*. 2010 ESRI Users Conference – Map Gallery. San Diego, CA.

Fleming, S. 2010. *Terrestrial Imaging of Military Test Centers*. SPIE Defense, Security and Sensing National Conference, Orlando, FL.

Fleming, S. 2009. *Geospatial Information Science Program and Admissions Processes at the United States Military Academy*. 2009 ESRI Educational Users Conference. San Diego, CA.

Fleming, S. 2008. *Academic Examinations Workshop*. National Military Academy Afghanistan (NMAA), Dean's Staff and Department Heads, NMAA, CSTC-A. Kabul, Afghanistan.

Fleming, S. 2007. *Feature Identification from Commercial Satellite Images for Military and Homeland Security Operations (Classified Session)*. 2007 ASPRS Annual Conference. Tampa, FL.

Fleming, S. 2007. *Leadership Lessons from High School throughout a Career in the Military*. Feature Speaker at History Day, The Bolles School. Jacksonville, FL.

Fleming, S. and J. Brockhaus. 2006. *NGA-sponsored Geospatial Information Science Education Program at the United States Military Academy*. NGA Academic Research Symposium. Washington, DC.

Fleming, S. and J. Brockhaus. 2005. *NGA-sponsored Geospatial Information Science Education Program at the United States Military Academy*. NGA Academic Research Symposium. Washington, DC.

Fleming, S. 2005. *Discussion of Leadership Lessons from Experiences in Afghanistan*. Upper School Convocation, The Bolles School. Jacksonville, FL.

Fleming, S., R. Smith and R. Wood. 2005. *Moral/Ethical Program at NMAA Seminar*. National Military Academy Afghanistan - Dean's Staff and Department Heads, NMAA, CSTC-A. Kabul, Afghanistan.





Fleming, S. 2005. *Geographic Science Laboratory Use in the Information Age* as part of the series, *Student Learning in the Information Age*. West Point, NY.

Fleming, S. 2005. *Large Scale Mapping in the Littoral Zone*. AutoCarto Symposium. Las Vegas, NV.

Fleming, S. 2005. *Use of Geospatial Data in Education*. Center for Teaching Excellence Seminar Series. West Point, NY.

Fleming, S. 2004. *Military Use of Geospatial Information*. Guest Speaker, Gamma Theta Upsilon (USMA Chapter) Fall Meeting. West Point, NY

Fleming, S, and M. Hendricks. 2004. *NGA-sponsored Geospatial Information Science Education Program at the United States Military Academy*. NGA Academic Research Symposium. Washington, DC.

Fleming, S. and M. Hendricks. 2004. *USMA's GISc Program*. Poster Session at the 2004 ESRI Educational Users Conference. San Diego, CA.

Fleming, S. 2004. *Large Scale Mapping the Coastal Zone*. Published in proceedings (CD-ROM) of the 2004 ESRI Educational Users Conference. San Diego, CA.

Fleming, S. 2004. *GIS Applications for Military Operations in the Coastal Zone*. 2004 ASPRS Annual Conference. Denver, CO.

Fleming, S and L. Usery. 2003. *NGA-sponsored Research at the University of Georgia*. NGA Academic Research Symposium. Washington, DC.

Fleming, S. 2003. *Military Use of GIS in Coastal Zones*. 2003 ESRI Educational Users Conference. San Diego, CA.

Fleming, S. 2003. *Comparative Evaluations of Remotely Sensed Data for the Development of Coastal Databases*. GeoTools03 Conference. Charleston, SC.

Welch, R. and S. Fleming. 2002. *NGA-sponsored Research at the University of Georgia*. NGA Academic Research Symposium. Washington, DC.

Welch, R, T. Jordan and S. Fleming. 2002. *GIS Applications for Military Operations in the Coastal Zone*. Project Meeting. Camp Lejeune, NC.

Welch, R, T. Jordan and S. Fleming. 2002. *Assessing the Ability of Commercial Sensors to Satisfy Mission Specific-Littoral Requirements*. National Imagery and Mapping Agency (NIMA). Washington, DC.

Fleming, S and J. Maassel. 1997. *GPS Applications in Golf Course Measuring and Mapping*. GPS/GIS '97. Annapolis, MD.



Hilsman, M., J. Brockhaus, S. Fleming and M. Hendricks. 1996. *Three dimensional terrain visualization of Gettysburg NMP*. Poster Presentation at the Association of American Geographers 92<sup>nd</sup> Annual Meeting. Charlotte, NC.

### **FUNDING, SCHOLARSHIPS, & ACADEMIC HONORS / MILITARY AWARDS**

Funding grants for research/education exceeding \$1.2 million, 2005-present.

Fully-funded Doctoral Degree Program, University of Georgia, 2001.

Fully-funded Masters Degree Program, Naval War College, 1998.

Induction into Phi Kappa Phi, University of Georgia Chapter, 1995.

Fully-funded Masters Degree Program, University of Georgia, 1993.

Fully-funded Bachelors Program, United States Military Academy, 1985.

#### **Military Awards**

Legion of Merit, 2015.

Military Outstanding Volunteer Service Medal, 2015.

Army Superior Unit Award, 2010.

Afghanistan Campaign Medal (2 Awards), 2005/2008.

NATO (ISAF) Service Medal, 2008.

Joint Meritorious Unit Award, 2006.

Joint Service Achievement Medal, 2005.

Meritorious Service Medal (3 Awards), 1993/1998/2001.

Defense Service Ribbon (2 Awards), 1991/2001.

Army Commendation Medal (2 Awards), 1989/1991.

Army Achievement Medal (2 Awards), 1985/1987.

Army Service Ribbon, 1985.

#### **Other Awards**

Distinguished Service Award, United States Geospatial Intelligence Foundation, 2020.

Honorable Order of Saint Barbara Medal, 1992.

Omar Bradley Award for Leadership, 1989.

### **SCIENTIFIC AND PROFESSIONAL SOCIETIES OF WHICH A MEMBER**

Phi Kappa Phi Honor Society, University of Georgia Chapter, 1995-present.

Gamma Theta Upsilon – National Geographical Honor Society (USMA), 2004-present.

Association of American Geographers, 1995-present.

American Society of Photogrammetry and Remote Sensing, 1995-present

University of Georgia Alumni Association, 1995-present

Association of Graduates (AOG) – USMA at West Point, 1985-present.

Association of the United States Army, 1985-present.

Naval War College Foundation, 1999-present.

Veteran of Foreign Wars, 2005-present.

Military Officers Association of America, 2013-present.



United States Geospatial Intelligence Foundation Academic Advisory Board, 2010-present.  
United States Geospatial Intelligence Foundation Certification Governance Board, 2016-present.

### **OTHER VOLUNTEERISM**

**Coach**, Youth Services (Basketball), Boys and Girls Club of America, 2019-2020.  
**Coach**, Youth Services (Soccer, Basketball, Baseball), USMA, 1995-1998 and 2004-2010.  
**Member**, Board of Visitors, The Bolles School, Jacksonville, FL, 2004-2007.  
**Assistant Coach**, James I. O'Neill High School Golf Team, Highland Falls, NY, 2005-2007.  
**Coach**, Youth Services (Soccer, Basketball, Baseball), Oconee County, GA 2001-2004.  
**Coach**, YMCA (Soccer, Basketball, Baseball), Newport, RI 1998-1999.

### **SECURITY CLEARANCE**

SECRET, 2019-present (certificates prepared for activation when needed).

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