

**A COMMUNICATION BY CATHY RICHARDS, ATLANTA PLANNING ADVISORY BOARD (APAB) PRESIDENT, TO MUNICIPAL CLERK RHONDA DAUPHIN JOHNSON, SUBMITTING THE ATLANTA PLANNING ADVISORY BOARD'S APPOINTMENT OF MR. JAMES S. MARTIN TO SERVE AS A MEMBER OF THE BELTLINE TAX ALLOCATION DISTRICT ADVISORY COMMITTEE (TADAC).**

**Review List:**

Office of the Municipal Clerk	Completed	06/14/2013 2:01 PM
Community Development & Human Resources Committee	Completed	06/24/2013 5:00 PM
Community Development & Human Resources Committee	Completed	06/26/2013 2:20 PM
Committee on Council	Pending	
Atlanta City Council	Pending	

**HISTORY:**

06/17/13      Community Development & Human Resources Committee      REFERRED WITHOUT OBJECTION

<b>RESULT:</b>	<b>REFERRED WITHOUT OBJECTION</b>
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06/25/13      Community Development & Human Resources Committee      FAVORABLE

<b>RESULT:</b>	<b>FAVORABLE [4 TO 0]</b>
<b>AYES:</b>	Joyce Sheperd, Kwanza Hall, Howard Shook, Cleta Winslow
<b>ABSENT:</b>	Ivory Lee Young Jr.
<b>AWAY:</b>	H. Lamar Willis

Certified by Presiding Officer	Certified by Clerk

LEGISLATION HISTORY – BLUE BACK

**A COMMUNICATION BY CATHY RICHARDS, ATLANTA PLANNING ADVISORY BOARD (APAB) PRESIDENT, TO MUNICIPAL CLERK RHONDA DAUPHIN JOHNSON, SUBMITTING THE ATLANTA PLANNING ADVISORY BOARD'S APPOINTMENT OF MR. JAMES S. MARTIN TO SERVE AS A MEMBER OF THE BELTLINE TAX ALLOCATION DISTRICT ADVISORY COMMITTEE (TADAC).**



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*Cathy Richards*

**1<sup>st</sup> Vice President**  
*Gerald Neumark*

**2<sup>nd</sup> Vice President**  
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**City of Atlanta Planning  
Department**  
*Charletta Jacks, Dir.*  
Atlanta City Hall  
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May 16, 2013

The City of Atlanta Office of Municipal Clerk  
Atlanta City Hall  
55 Trinity Avenue, Suite 2700  
Atlanta, GA 30303

To the Office of the Municipal Clerk,

The Atlanta Planning Advisory Board is pleased to submit the name of Mr. James Martin for consideration by the Atlanta City Council for appointment to the Beltline Tax Allocation District Advisory Committee (TADAC).

It is the responsibility of the Atlanta Planning Advisory Board to select twelve appointees to the Beltline TADAC to be confirmed by the Atlanta City Council. Mr. Martin is replacing Mr. Ronald Hewitt whose term is expired.

We hope that the findings of City Council will support our conclusions that Mr. James Martin is an excellent selection and knowledgeable citizen.

Please advise when Council will vote on the nominee. We look forward to your response.

Kindest regards,

Cathy Richards  
APAB President  
404-778-5718

Attachment: James S. Martin (13-C-5011 : A Communication by Cathy Richards, APAB President)

**CURRICULUM VITA**  
**September 15, 2011**  
**James S. Martin**  
**Senior Research Engineer**  
**Georgia Institute of Technology**  
**George W. Woodruff School of Mechanical Engineering**

**EDUCATIONAL BACKGROUND:**

<b>M.S.M.E.</b>	June 1994	Georgia Institute of Technology	Mechanical Engineering
Thesis: "Experimental Study of the Scattered Near-Field of Objects with Mixed Boundary Conditions"			
<b>B.M.E.</b>	June 1989	Georgia Institute of Technology	Mechanical Engineering

**EMPLOYMENT HISTORY:**

Senior Research Engineer	Georgia Institute of Technology	July 2001 – Present
Research Engineer II	Georgia Institute of Technology	July 1994 – July 2001
Research Engineer I	Georgia Institute of Technology	October 1989 – July 1994
Student Research Assistant	Georgia Institute of Technology	March 1989 – October 1989

**CURRENT FIELDS OF INTEREST:**

**I. RESEARCH AND CREATIVE SCHOLARSHIP**

**A. Research Program Development**

1. Physiological Effects of Low Frequency Waterborne Sound
2. Use of Surface Acoustic Waves for the Detection of Buried Land Mines
3. Development of Underwater Acoustic Velocity Sensor Arrays
4. Development of Water Filled Acoustic Travelling Wave Tubes
5. Non Invasive Ultrasonic Techniques for Low Frequency Vibration Measurement
6. Application of Holographic Measurement Techniques to Problems of Scattering by Surface Impedance Discontinuities

**B. Research Proposals and Contracts/Grants Funded (PI)**

1. **Title:** "Cost Growth and Expansion of Navy contract N0014-97-1-0949" **Sponsor:** ONR, **CO-P.I.(s):** Rogers P.H. and J.S. Martin, **Amount Requested:** \$20K, **Submitted:** 8/98, **Result:** funded 11/98
2. **Title:** "Measurement of the Vibration Response to Low Frequency Underwater Sound of Air-Filled Spaces in Divers and Animal Models"(pre proposal), **Sponsor:** NSMRL, **CO-P.I.(s):** Rogers P.H. and J.S. Martin, **Amount Requested:** \$805K, **Submitted:** 1/99, **Result:** not funded 3/99
3. **Title:** "Investigation of the Interaction of Elastic Waves with Buried Mines" (proposal), **Sponsor:** ONR, **CO-P.I.(s):** Scott W.R., P. H. Rogers, and J. S. Martin, **Amount Requested:** \$439K, **Submitted:** 3/99, **Result:** Funded 7/99.
4. **Title:** "Design and Implementation of Mid-Frequency Underwater Sound Exposure Systems for Aversion and Damage Threshold Determination"(proposal), **Sponsor:** ONR, **CO-P.I.(s):**Rogers P.H. and J.S. Martin, **Amount Requested:** \$63K, **Submitted:** 5/99, **Result:** Funded

5. **Title:** "Investigation of a System for Locating Buried Mines" (proposal), **Sponsor:** ONR, **CO-P.I.(s):** Scott W.R., P. H. Rogers, G. W. Caille, and J. S. Martin, **Amount Requested:** \$7.6M, **Submitted:** 5/99, **Revised and resubmitted:** 3/00, **Result:** Not funded
6. **Title:** "Refinement of Seismic Mine Detection System for Field Operation and Testing"(proposal and pre-proposal), **Sponsor:** ARO, **CO-P.I.(s):** Scott, W.R., P. H. Rogers, G. D. Larson, and J. S. Martin, **Amount Requested:** \$1.1M, **Submitted:** 11/99 (pre proposal), 5/00 (proposal), **Result:** Not Funded 8/00
7. **Title:** "Deployment of Mid-Frequency Underwater Sound Exposure System for Small Animal Testing" (proposal), **Sponsor:** Geo-Centers Inc., **CO-P.I.(s):** Rogers P.H. and J.S. Martin, **Amount requested:** \$10.5K, **Submitted:** 4/00, **Result:** Funded 5/00,
8. **Title:** "Environmental Issues for the Operation of a Seismic Mine Detection System" (proposal), **Sponsor:** ONR, **CO-P.I.(s):** Scott W.R., P. H. Rogers, G.D. Larson, J. S. Martin, and G.S. McCall **Amount Requested:** \$1.4M, **Submitted:** 4/01, **Result:** funded, Contract N00014-01-1-0743
9. **Title:** "Alternative Transduction Modalities for Lightweight Seismic Landmine Detection", **Sponsor:** ONR, **CO-P.I.(s):** W.R. Scott Jr., J.S. Martin, and G.D. Larson, **Amount Funded:** \$300K, **Result:** Funded 6/2004.
10. **Title:** "Design and Fabrication of a Device for the Controlled Ensonification of Fish" (proposal), **CO-P.I.(s):** P.H. Rogers and J.S. Martin, **Sponsor:** Battelle Pacific Northwest National Laboratory, **Submitted:** 5/2006, **Amount requested:** \$92,887, **Result:** funded.
11. **Title:** "Cost Growth and Expansion to: Sound Exposure Chamber for Assessing the Effects of High-Intensity Sound on Fish" (proposal), **Sponsor:** Battelle Pacific Northwest National Laboratory, **CO-P.I.(s):** J.S. Martin and P.H. Rogers, **Submitted:** 8/2007, **Amount requested:** \$15,000, **Result:** funded
12. **Title:** "Preparation and Setup of a Ratabrator (Water-Filled Acoustic Traveling Wave Tube)" (proposal), **Sponsor:** SAIC, **CO-P.I.(s):** J.S. Martin, **Amount requested:** \$21,194, **Result:** funded
13. **Title:** "Testing and Setup of a Ratabrator (Water-Filled Acoustic Traveling Wave Tube)" (proposal), **Sponsor:** SAIC, **CO-P.I.(s):** J.S. Martin, **Amount requested:** \$15,587, **Status:** funded
14. **Title:** "Ultrasonic Remote Sensing of Stimulated Lung Resonance (URSSLR), A Proposed System for Detecting and Targeting Swimmers" (pre-proposal), **Sponsor:** ONR, **CO-P.I.(s):** J.S. Martin, P.H. Rogers and E.A. Cudahy, **Amount requested:** \$1.5M, **Result:** not funded.
15. **Title:** "Cost Growth and Expansion to: Sound Exposure Chamber for Assessing the Effects of High-Intensity Sound on Fish" (proposal), **Sponsor:** Battelle Pacific Northwest National Laboratory, **CO-P.I.(s):** J.S. Martin and P.H. Rogers, **Submitted:** 4/2008, **Amount requested:** \$10,024.63, **Result:** funded.
16. **Title:** "Ultrasonic Remote Sensing of Stimulated Lung Resonance (URSSRL) A Proposed System for Detection and Tracking of Marine Mammals" (pre-proposal), **Sponsor:** ONR, **CO-P.I.(s):** J.S. Martin, and P.H. Rogers, **Submitted:** 3/2008, **Amount requested:** \$988,750, **Result:** not funded.
17. **Title:** "Test and Measurement Support for Experiments in Exposure to Impulsive Underwater Sound" (proposal), **Sponsor:** SAIC, **CO-P.I.(s):** J.S. Martin, **Submitted:** 3/2010, **Amount requested:** \$39,066, **Status:** funded
18. **Title:** "Cost Growth and Expansion to Test and Measurement Support for Experiments in Exposure to Impulsive Underwater Sound" (proposal), **Sponsor:** SAIC, **CO-P.I.(s):** J.S. Martin, **Submitted:** 8/2010, **Amount requested:** \$14,352, **Status:** funded
19. **Title:** "Cost Growth and Expansion for Test and Measurement Support for Experiments in Exposure to Impulsive Underwater Sound" (proposal), **Sponsor:** SAIC, **CO-P.I.(s):** J.S. Martin, **Submitted:** 8/2010, **Amount requested:** \$17,369, **Status:** funded

**C. Research Contracts/Grants (Contributor)**

1. **Title:** "PRACTICAL Lake Experiment", **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Jarzynski J., **Amount Funded:** \$1.92M, **Period of Performance:** 10/1988 - 9/1990,
2. **Title:** "Advanced Research and Development of the PRACTICAL Concept", **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Jarzynski J., **Amount Funded:** \$9.27M, **Period of Performance:** 1/1991 - 11/1994,
3. **Title:** "Models for the Directional Acoustic Startle Reflex in fish", **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Lewis T.N., **Amount Funded:** \$423K, **Period of Performance:** 1/1994 - 12/1996,
4. **Title:** "Conformal Aperture Velocity Sonar (CAVES)", **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Caille G.W., **Amount Funded:** \$14.8M, **Period of Performance:** 10/1994 - 12/1999,
5. **Title:** "Undersea Research ", **Sponsor:** US Navy, **P.I.(s):** Rogers P.H. and Caille G.W., **Amount Funded:** \$2.65M, **Period of Performance:** 10/1994 - 10/1997,
6. **Title:** "Response of the Lungs to Low Frequency Underwater Sound", **Sponsor:** ONR, **P.I.(s):** Rogers P.H., Lewis T.N., and Caille G.W., **Amount Funded:** \$160K, **Period of Performance:** 9/1993 - 8/1994,
7. **Title:** "Measurement of Lung Vibration from Low Frequency Underwater Sound in an Animal Model and Divers Using NIVAMS", **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Lewis T., **Amount Funded:** \$170K, **Period of Performance:** 7/1997 - 12/1998,
8. **Title:** "Yellow Sea Internal Wave Experiment", **Sponsor:** ONR, **P.I.(s):** Rogers P.H., Zhou J., and Caille G.W. and Lewis T., **Amount Funded:** \$500K, **Period of Performance:** 6/1996 - 2/1997,
9. **Title:** "Proof-of-Concept Prototype of a State Switched Leave Behind Source", **Sponsor:** ONR, **P.I.(s):** Rogers P.H., Larson G.D., and Lynch C.S., **Amount Funded:** \$206K, **Period of Performance:** FY 1998, 12 month.
10. **Title:** "Investigation of an Acousto-Electromagnetic Sensor for Locating Land Mines", **Sponsor:** ARO, **P.I.(s):** Scott W.R. and Rogers P.H., **Amount Funded:** \$300K, **Period of Performance:** 1/1997 -12/1997.
11. **Title:** "ULTRA-3T armored patrol vehicle", **Sponsor:** ONR, **P.I.(s):** Caille G.W. and Badenoch S.W., **Amount Funded:** \$413K, **Period of Performance:** 8/2004 -2/2006
12. **Title:** "Panthermeter energy watch prototype development", **Sponsor:** GA State University, **P.I.(s):** Gray M.D., **Amount Funded:** \$46K, **Period of Performance:** 4/2004 -12/2004.
13. **Title:** "In Vivo Determination of the Complex Elastic Moduli of Cetacean Head Tissue" , **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Gray M..D., **Amount Funded:** \$644K, **Period of Performance:** 4/2005 -12/2008.
14. **Title:** "Proposal for Extension to In Vivo Determination of the Complex Elastic Moduli of Cetacean Head Tissue", **Sponsor:** ONR, **P.I.(s):** Rogers P.H. and Gray M..D., **Amount Funded:** \$644K, **Period of Performance:** 8/2008 -1/2012.
15. **Title:** "Development of vector sensors, measurement methodology, and materials", **Sponsor:** ONR, **P.I.(s):** Trivett D.H., **Amount Funded:** \$5.5M, **Period of Performance:** 8/2007 -6/2014.

**D. Published Journal Papers (refereed)**

1. Scott, W.R., Jr., Martin, J.S., and Larson, G.D., "Experimental Model for a Seismic Landmine Detection System," *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 39, pp. 1155-1164, July 2001.
2. Zhou J., Zhang X., Martin J., and Berthelot Y., "Sound Diffraction by an Underwater Ridge with Soft Finite Impedance", *Journal of the Acoustical Society of America*, Vol. 109 No. 5 pp. 2266-9, May 2001.

3. Martin, J.S., Rogers, P.H. and Cudahy, E.A., "Measurement of the depth-dependent resonance of water-loaded human lungs", *Journal of the Acoustical Society of America*, Vol. 117 no. 4 pp 2291-2300, April 2005.
4. Martin, J.S., Larson, G.D., and Scott, W.R. Jr., "An investigation of surface-contacting sensors for the seismic detection of buried landmines", *The Journal of the Acoustical Society of America*, Vol. 120 no.5, pp 2676-2685, November 2006.
5. Zhou, J.X., Zhang, X.Z., Peng, Z., and Martin, J.S., "Sea surface effect on shallow-water reverberation", *The Journal of the Acoustical Society of America*, Vol. 121 no.1, pp 98-107, January 2007.
6. Larson, G.D., Martin, J.S., and Scott, W.R. Jr., "Investigation of microphones as near-ground sensors for seismic detection of buried landmines", *The Journal of the Acoustical Society of America*, Vol. 122 no. 1, pp. 253-8, July 2007.
7. Martin, J.S., Rogers, P.H. and Gray, M.D., "Range discrimination in ultrasonic vibrometry: Theory and experiment", *The Journal of the Acoustical Society of America*, Vol. 130 no.3, pp. 1735-47, September 2011.

#### **E. Invited Conference Presentations**

1. Scott, W.R., Jr., Schroeder, C.T., and Martin, J.S., "An Acousto-Electromagnetic Method for Detecting Buried Objects," *Proceedings of the XXVII<sup>th</sup> General Assembly of the International Union of Radio Science*, Toronto, Canada, pg. 724, August 1999, Invited.
2. M.D. Gray, J.S. Martin, and P.H. Rogers, "A shear wave elastography system for cetacean tissues and its potential application in fish bioacoustics", *161st meeting of the Acoustical Society of America*, Seattle, WA, JASA 129 No.4 Pt. 2 pg. 2473, April 2011.

#### **F. Conference Presentations with Proceedings (non-refereed)**

1. Scott W.R. and J.S. Martin, "Experimental Investigation of the Acousto-Electromagnetic Sensor for Locating Land Mines," *Proceedings of the SPIE: 1999 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 3710, pp. 204-14, April 1999.
2. Zhou J., Zhang X., Rogers P.H. and Martin J.S., "Low Frequency Acoustic Options for Remote Characterization of Internal Waves in Shallow Water", *4th Pacific Remote Sensing Conference*, July 1998.
3. Scott W.R., Schroeder C., and Martin J.S., "An Acousto-Electromagnetic Sensor for Locating Buried Land Mines", *Proceedings of the SPIE: 1998 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 3392 pp. 176-86, April 1998.
4. Scott W.R. and Martin J.S., "An Experimental Model of the Acousto-Electromagnetic Sensor for Detecting Land Mines", *IEEE Antennas and Propagation Society International Symposium*, Atlanta GA, Vol.2 pp. 976-81, June 1998.
5. Scott W.R., Martin J.S., and Schroeder C., "A Hybrid Acoustic/Electromagnetic Technique for Locating Land Mines", *IEEE International Geoscience and Remote Sensing Symposium*, Vol. 1 pp. 216-18, July 1998.
6. Scott, W. R., Jr., C. T. Schroeder, J. S. Martin, and G. D. Larson, "Investigation of a Technique that Uses Both Elastic and Electromagnetic Waves to Detect Buried Land Mines," *Submitted to the AP2000 Millennium Conference on Antennas & Propagation*, Davos, Switzerland, April 2000.
7. Scott W.R., Larson, G.D. and Martin J.S., "Simultaneous Use of Elastic and Electromagnetic Waves for the Detection of Buried Land Mines," *Proceedings of the SPIE: 2000 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 4038, April 2000.

8. Scott W.R., Larson G.D., and Martin J.S., "Investigation of a Technique that Uses Elastic Waves to Detect Buried Land Mines", *Proceedings of the 2000 International Geoscience and Remote Sensing Symposium*, Honolulu, HA, July 2000.
9. Scott, W.R., Jr., Lee, S.H., Larson, G.D., Martin, J.S., and McCall, G.S., II, "Use of High-Frequency Seismic Waves for the Detection of Buried Land Mines," *Proceedings of the SPIE: 2001 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 4394, pp. 543-552, April 2001.
10. Larson, G.D., Martin, J.S., Scott, W.R., Jr., and McCall, G.S., II, "Environmental Factors that Impact the Performance of a Seismic Land Mine Detection System," *Proceedings of the SPIE: 2001 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 4394, pp. 563-574, April 2001.
11. Scott, W.R., Jr., Schröder, C.T., Martin, J.S., and Larson, G.D., "Use of Elastic Waves for the Detection of Buried Land Mines," *Proceedings of the 2001 International Geoscience and Remote Sensing Symposium*, Sidney, Australia, July 2001.
12. Martin, J.S., Rogers, P.H., Cudahy, E.A., and Hanson, E.L., "Fundamental Resonance of the Water-Loaded Human Lung", *Proceedings of the 17th International Congress on Acoustics*, Rome, Italy, September 2001.
13. Zhou, J.X., Zhang, X.Z., Martin, J.S., and Rogers, P.H., "Reverberation-Derived Bottom Scattering Strength in the Yellow Sea", *Proceedings of the 17th International Congress on Acoustics*, Rome, Italy, September 2001.
14. Scott W.R., Lee S. H., Martin J.S., Larson G.D., and McCall G.S., "Technical Issues Associated with the Detection of Buried Landmines with High-Frequency Seismic Waves", *Proceedings of the Fifth International Symposium on Technology and the Mine Problem*, April 22-25 2002, Monterey California. Abstract was reprinted in the *Demining Technology Forum Information Journal*, 3rd Issue, 2002.
15. Martin J.S., Fenneman D.J., Codron F., Rogers P.H., Scott, W.R., Larson G.D., and McCall G.S., "Ultrasonic Displacement Sensor for the Seismic Detection of Buried Land Mines", *Proceedings of the SPIE: 2002 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 4742, pp. 606-616, April 2002.
16. Lee S.H., Scott W.R., Martin J.S., Larson G.D., and McCall G.S., "Technical Issues Associated with the Detection of Buried Land Mines with High-Frequency Seismic Waves", *Proceedings of the SPIE: 2002 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 4742, pp. 617-628, April 2002.
17. Larson G.D., Martin J.S., Scott, W.R., McCall G.S., and Rogers P.H., "Characterization of Elastic Wave Propagation in Soil.", *Proceedings of the SPIE: 2002 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 4742, pp. 629-639, April 2002.
18. Larson G.D., Martin J.S., Rogers P.H., Scott W.R., and McCall G.S., "Impact of Non-Linear Effects on High-Frequency Seismic Landmine Detection", *Proceedings of the Fifth International Symposium on Technology and the Mine Problem*, April 22-25 2002, Monterey California. (Refereed, published in CD format). Reprinted in the *Demining Technology Forum Information Journal*, 3rd Issue, 2002
19. Larson G.D., Martin J.S., Scott W.R., McCall G.S., and Rogers P.H., "Characterization of Elastic Wave Propagation in Soils for Detection of Buried Landmines", *Proceedings of the Bouyocous Conference on Agroacoustics, Fourth Symposium*, The University of Mississippi, National Center for Physical Acoustics, University, Mississippi, May 6-9, 2002, pp. 117-134.
20. Martin J.S., Larson G.D., Scott W.R., and McCall G.S., "Evaluation of Seismic Noise for Landmine Detection System Development", *Proceedings of the SPIE: 2003 Annual International Symposium on*

- Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5089, pp. 653-664, April 2003.
21. Scott W.R., Larson G.D., Martin J.S., and McCall G.S., "Field Testing and Development of a Seismic Landmine Detection System", *Proceedings of the SPIE: 2003 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5089, pp. 643-652, April 2003.
  22. Larson G.D., Alam M., Martin J.S., Scott W.R., McClellan J.H., McCall G.S., Norville P.D., and Declety B., "Surface-Wave-Based Inversions of Shallow Seismic Structure", *Proceedings of the SPIE: 2003 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5089, pp. 1231-1242, April 2003.
  23. J.S. Martin, W.R. Scott Jr., G.D. Larson, P.H. Rogers and G.S. McCall II, "Probing Signal Design for Seismic Landmine Detection", *Proceedings of the SPIE: 2004 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5415, pp. 133-144, April 2004.
  24. G.D. Larson, J.S. Martin, W.R. Scott Jr., and G.S. McCall II, "Experimental Measurements for a Seismic Landmine Detection System", *Proceedings of the SPIE: 2004 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5415, pp. 133-144, April 2004.
  25. J.S. Martin, W.R. Scott Jr., P.H. Rogers, Z. Fan, and G.S. McCall II, "Ultrasonic Vibrometer for Seismic Landmine Detection", *Proceedings of the 18<sup>th</sup> International Congress on Acoustics*, 2 p., April 2004.
  26. D.J. Fenneman, J.S. Martin, W.R. Scott Jr, G.D. Larson, and P.H. Rogers, "Development of Surface-Integrating Non-Contact Vibrometers for Seismic Landmine Detection", *Proceedings of the Sixth Joint International Military Sensing Symposium*, paper US-097,12p., October 2004.
  27. J.S. Martin, G.D. Larson, and W.R. Scott Jr., "Surface-Contacting Vibrometers for Seismic Landmine Detection", *Proceedings of the SPIE: 2005 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5794, pp. 590-600, April 2005.
  28. G. D. Larson, J.S. Martin, and W.R.Scott Jr., "Detection of Buried Landmines Using Seismic Waves and Microphones", *Proceedings of the SPIE: 2005 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 5794, pp. 655-665, April 2005.
  29. G.D. Larson, J.S. Martin, and W.R. Scott Jr., "Ground Contacting Sensors for Seismic Landmine Detection", *Proceedings of the SPIE: 2006 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 6217, paper 621711 (9 pages), April 2006.
  30. W.R. Scott Jr., J.O. Hamblen, J.S. Martin, and G.D. Larson, "Large Vibrometer Arrays for Seismic Landmine Detection", *Proceedings of the SPIE: 2006 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls*, Orlando, FL, Vol. 6217, paper 621712 (10 pages), April 2006.
  31. J.S. Martin, and P.H Rogers, "Sound Exposure Chamber for Assessing the Effects of High-Intensity Sound on Fish", *Proceedings of the Nyborg International Conference on the Effects of Noise on Aquatic Life, (reprinted in Bioacoustics Vol. 17 pp 331-333 2008)*, Nyborg, Den, August 2007
  32. J.S. Martin, P.H. Rogers, and M.D. Gray, "Signals for the approximate characterization of acoustic systems", *20<sup>th</sup> International Congress on Acoustics*, Sydney Australia, Paper #312, 5 pages, August 2010.
  33. P.H. Rogers, J.S. Martin, and J. Bogle, "A Critical Re-evaluation of the Role of Acoustic Pressure in Source Localization by Fish", *Proceedings of the 2<sup>nd</sup> International Conference on the Effects of Noise on Aquatic Life*, Cork Ireland August 2010, 6 pages, to be published in: Popper, A. N. and Hawkins,

A. eds. (2011). *Effects of Noise on Aquatic Life*. Springer Science+Business Media, LLC, New York. (in press).

### G. Conference Presentations without Proceedings

1. Martin, J.S. and P.H. Rogers, "Experimental Study of the Scattered Near-Field of Submerged Objects with Surface Impedance Discontinuities", *127th meeting of the Acoustical Society of America*, Atlanta, GA, JASA 95 No.5 Pt. 2 pg. 3017, June 1994.
2. Lewis T.N., Martin J.S., and Rogers P.H., "Measurement of the Vibrational Response of Porcine Lungs to Low Frequency Underwater Sound", *127th meeting of the Acoustical Society of America*, Atlanta, GA, JASA 95 No.5 Pt. 2 pg. 2830, June 1994.
3. Martin, J.S. and P.H. Rogers, "Design of a Plane Rectangular Near-Field Array with Nearby Reflective Boundaries", *3<sup>rd</sup> joint meeting of the Acoustical Society of America and Japan*, Honolulu HA., JASA 100 No.4 Pt. 2 pg. 2697, December 1996.
4. Zhang R., Jin G., Lei L.Y., Gan Z., Zhou J., Rogers P.H., McCall G.S., Martin, J.S., Caille G.W., Tate D.C., Dahl P.H. and Spindel R.C., "Acoustic Wave – Internal Wave Interaction Experiment in the Yellow Sea", *3<sup>rd</sup> joint meeting of the Acoustical Society of America and Japan*, Honolulu HA., JASA 100 No.4 Pt. 2 pg. 2613, December 1996.
5. Larson G.D., Rogers P.H., and Martin J.S., "State Switched Transducer for Use as a Leave Behind Source", *1998 Technical Workshop on Submarine Acoustic Superiority, Submarine ASW*, April 1998.
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7. Martin, J.S. and P.H. Rogers, "Modification of Chamber Resonance through Active Mass Control", *137th meeting of the Acoustical Society of America / convention of EAA / DAGA conference*, Berlin, Germany, JASA 105 No.2 Pt. 2 pg. 1370, March 1999.
8. Martin, J.S. and P.H. Rogers, "Human Lung Response to ULFS", *Low frequency Systems conference*, Section 3, Groton, CT, January 1999.
9. Martin, J.S. and P.H. Rogers, "Low Frequency Response of the Submerged Human Lung", *139th meeting of the Acoustical Society of America*, Atlanta, GA, JASA 107 No.5 Pt. 2 pg. 2813, June 2000.
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11. Scott W.R., Larson G.D., Martin, J.S., and Rogers P.H., "Seismic/Electromagnetic System for Landmine Detection", *139th meeting of the Acoustical Society of America*, Atlanta, GA, JASA 107 No.5 Pt. 2 pg. 2897, June 2000.
12. Larson G.D., Martin, J.S., and Scott W.R. and Jia C., "Air Acoustic Sensing of Seismic Waves", *139th meeting of the Acoustical Society of America*, Atlanta, GA, JASA 107 No.5 Pt. 2 pg. 2896-7, June 2000.
13. Jackson, Kopke, Hoffer, Jones, Wood, Ron, Liu, Rogers, and Martin, "A Small Animal Model of Underwater High-Intensity Low-Frequency Sound Exposures", Presented at: *The 24<sup>th</sup> Annual Meeting of the Association for Research in Otolaryngology*, February 2001.
14. Martin J.S., Larson G.D., Rogers P.H., Scott W.R., and McCall G.S., "Field Site Evaluation for Seismic Mine Detection", *Journal of the Acoustical Society of America*, Vol. 112, No.5, Pt.2, Pg 2391, November 2002.

15. Scott W.R., Larson G.D., and Martin J.S., “Audible and Visual Representations of the Signals from a Seismic Landmine Detection System”, *Journal of the Acoustical Society of America*, Vol. 112, No.5, Pt.2, Pg 2325, November 2002.
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17. D.J. Fenneman, B.W. Libbey, and J.S. Martin, “Evaluation of an Ultrasonic Displacement Sensor”, presented at the 147<sup>th</sup> Meeting of the Acoustical Society of America, May 2004.
18. W.R. Scott Jr., G. D. Larson, J.S. Martin, and G.S. McCall II, “Development of a Seismic Landmine Detection System”, Presented at the 2004 Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls, April 2004.
19. G.D. Larson, J.S.Martin, and W.R. Scott Jr., “Seismic Landmine Detection Using Microphones as Near-Ground Sensors”, presented at the 149<sup>th</sup> Meeting of the Acoustical Society of America, May 2005.
20. J.S.Martin, G.D. Larson, and W.R. Scott Jr., “Non-Intrusive Ground-Contacting Vibrometer for Acoustic/Seismic Landmine Detection”, presented at the 149<sup>th</sup> Meeting of the Acoustical Society of America, May 2005.
21. M.D. Gray, J.S. Martin, and P.H. Rogers, “Transmission of Ultrasound through bottlenose dolphin (*tursiops truncatus*) jaw and skull bone”, presented at the 4<sup>th</sup> Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, November 2006.
22. J.S. Martin, P.H. Rogers and M.D. Gray, “Ultrasonic vibrometer for tissue characterization”, 155<sup>th</sup> meeting of the Acoustical Society of America, Acoustics 08, Paris, France, JASA 123 No.5 Pt. 2 pg. 3001, May 2008.
23. M.D. Gray , J.S. Martin, and P.H. Rogers, “Dual confocal ultrasound system for shear wave elastography”, 155<sup>th</sup> meeting of the Acoustical Society of America, Acoustics 08, Paris, France, JASA 123 No.5 Pt. 2 pg. 3914, May 2008.
24. M.D. Gray, J.S. Martin, and P.H. Rogers, “Shear wave elastography of cetacean tissues”, 157<sup>th</sup> meeting of the Acoustical Society of America, Portland OR, JASA 125 No.4 Pt. 2 pg. 2514, April 2009.
25. J.S. Martin, M.D. Gray, and P.H. Rogers, “Improved range-discriminating ultrasonic vibrometer”, 157<sup>th</sup> meeting of the Acoustical Society of America, Portland OR, JASA 125 No.4 Pt. 2 pg. 2742, April 2009.
26. P.J.K. Cameron, P.H. Rogers, M.D. Gray, and J.S. Martin, “Detection of hemorrhage regions in the brain using ultrasonic vibrometry”, 161<sup>st</sup> meeting of the Acoustical Society of America, Seattle, WA, JASA 129 No.4 Pt. 2 pg. 2609, April 2011.

## II. SERVICE

### A. Professional Activities

1. Member, Acoustical Society of America 1988 - Present.
2. Member, American Society of Mechanical Engineers 1988 – 91
3. Member, Society for Counter-Ordnance Technology 2002

### B. Outside Professional Activities/Consulting

1. Techsonics Inc., July – November 1991, Experimental evaluations of the effectiveness of fish finding Sonar.

2. The Bearing Edge Inc., March – August 1996, Design and testing of drum snare tensioning device.
3. Short course - “Introduction to Acoustical Oceanography”, co-taught with J.F. Vignola CUA, A two-day short-course for 40 students at the US Department of Fisheries in Silver Spring, MD, August 5-6, 2009.

### III. NATIONAL AND INTERNATIONAL PROFESSIONAL RECOGNITION

#### A. Honors and Awards

1. IEEE Geoscience and Remote Sensing Society 2002 Symposium Prize Paper Award

#### B. Professional Registration

1. Georgia Professional Engineer Registration Number: 25830, First Issued February 2000
2. Georgia Class B Commercial Drivers License

#### C. Patents

1. Cunefare K.A., Martin J.S., and Larson G.D., “State Switched Absorber”, provisional patent Application, Docket number 2297PR (2000).
2. Martin J.S., Larsen J.W., Rogers P.H., and Gray M.D., " A system for measuring heart rate at the wrist", GTRC Invention Disclosure, Document ID 20050930D (2005), PCT application 11/266,110.
3. Badenoch S.W., Martin J.S., and McCall G.S., “Blast-Bucket Vehicle Protective Structure”, GTRC Invention Disclosure, Document ID 20020605 (2002)
4. Martin J.S., Rogers P.H., and Gray M.D., “Range discriminating ultrasonic vibrometer”, provisional patent, GTRC ID 5178, serial number 61/530,628. September 2011

#### D. Editorial and Reviewer Work for Technical Journals

1. Reviewer for the Journal of the Acoustical Society of America

### IV. PROFESSIONAL DEVELOPMENT

#### A. Course work completed since receiving MSME

1. EAS 6810 Geophysical Fluid Dynamics (3 credit hours)
2. ME 7123 Non Linear Acoustics (3 credit hours)
3. ME 6024 Variational Methods I (3 credit hours)
4. ME 6025 Variational Methods II (3 credit hours)
5. ME 9000 Ph.D. thesis (10 credit hours)
6. Math 6583 Integral Equations (3 credit hours)
7. ME 8103 Structural Acoustics (3 credit hours)
8. EAS 4300 Oceanography (3 credit hours)
9. EAS 6314 Seismology (3 credit hours)
10. MSC ADAMS Full Simulation Training (April 2004)
11. GT EHGS Bloodborne Pathogens training (July 2008)
12. GT EHGS General Biosafety training (July 2008)