**Contact Information:**

Junan Shen, Ph.D.

Department of Civil Engineering & Construction

Allen E. Paulson College of Engineering and Computing

Georgia Southern University (GSU)

1123 Engineering Building

 Statesboro, GA, 30460-8047

 Tel. (0912) 478-0084

 E-mail:jshen@georgiasouthern.edu

**Bio-sketch**

Dr. Shen is a tenured full Professor and the Director of Asphalt Research Laboratory of the Department of Civil Engineering and Construction at GSU. He has completed about US$ 2 millions in externally-funded researches, and has more than 150 scholarly publications in peer reviewed journals and conferences related to his area of practice mainly in asphalt materials and flexible pavement engineering. He is a now an associate editor for the Journal of Material in Civil Engineering, American Society of Civil Engineers (ASCE), Standing Technical Commitment Member of Asphalt Rubber, and also a member of Transportation Research Board (TRB), ASCE and Asphalt Association of Pavement Technology (AAPT). He is a peer reviewer for more than academic journals such as TRB and Journal of Materials in Civil Engineering, ASCE. As of 2019, Statistic data of Google Scholar Citations indicated that his h-index is 18, i10-index 33 and citation 1614.

**Present Position:**

**Tenured Full Professor,** Department of Civil Engineering and Construction, GSU, GA

**Director,** Asphalt Research Laboratory, GSU, GA

**Professional Experience:**

  **Tenured Full Professor**, Georgia Southern University, August 2016-

 **Tenured Associate Professor,** Georgia Southern University, August 2010-May 2016

**Assistant Professor,** GSU, GA, August 2007- August 2010

 **Temporary Assistant Professor,** GSU, GA, August 2005-August 2007

**Post Doctor Fellow,** Clemson University, SC, March 2003-July 2005

**Senior Research Engineer,** Taisei Rotec Corporation, Japan, 2000-2003

**Graduate Research Assistant,** Department of Civil Engineering, Saga University, Japan, 1997-2000

**Assistant Professor and Deputy Head**, Division of Urban Construction,

 Suzhou Institute of Urban Construction and Environmental Protection (SIUCE) 1987- 1995 Consultant Engineer, Tianling Highway Engineering Consultant, SIUCEP, China, 1992- 1995

**Selected Publications:**

***Peer-reviewed Journal Articles***

1. X. Li, J. Shen, P. Shi, H Zhu (2019), Nonlinear Modeling of Nanoscaled properties of Asphalt Binders Recovered from Weather Asphalt Mixtures, Journal of Civil Engineering, ASCE, Volume 32 Issue 1, January 2020.
2. Sungun Kim, Junan Shen, Sungin Lee, Yeongsam Kim and Kwang W. Kim (2018), Examination of Physical Property Degradation due to Severe Short-term Ageing and Effect of Hydrated Lime as Antioxidant in Asphalt Mixtures, Volume 20, Issue 7, Road Materials and Pavement Design, 2019
3. Sungun Kim, Myung Jeong, Junan Shen, Kwang-woo Kim (2018), An Experimental Study for Determination of Optimum Asphalt Content for Foamed Asphalt Mix Using 100% RAP, Journal of the Korean Asphalt Institute, Vol. 8 (1).
4. Sungun Kim, Myung Jeong, Junan Shen, Kwang W. Kim, (2018), Evaluation of Rejuvenator Influence on Foamed Asphalt Using 100% Recycled Asphalt Pavement (RAP), Korean Scholar, Journal of Korean Society of Road Engineers
5. G. Zhao, Z. Sun, D. Su, J. Shen (2018), Durability of recycled lime-fly ash treated aggregated as pavement base materials: Chinese experience. International Journal of Research in Science and Technology (IJRST), Vol. No. 8, Issue No. II Appr-Jun, 2018
6. Seonghoon Kim, IIan Stern, Junan Shen, Mohammad Ahad, Yong Bai (2018), Energy Harvesting Assessment Using PZT Sensors and Roadway Materials, Int. J. of Thermal & Environmental Engineering, Vol.16(1) (2018)19-25.
7. Sungun Kim, Junan Shen and Myung Jeong (2018), Effects of Aggregate Size on the Rutting and Stripping Resistance of Recycled Asphalt Mixtures, Journal of Materials in Civil Engineering, Volume 30 Issue 2, February 2018.
8. Q Gao, J Shen (2017), Research on Design Method and Pavement Performance of Water Injection Foamed Modified Asphalt Warm SMA, Transportation research Congress 2017
9. Dai Zhen, Junan Shen, Li Hui (2019) Examining Relationship Between Properties of Weathered Asphalt Mixtures and Nano-sized Morphology of Their Recovered Binders, Road materials and pavement Design, February, 2019.
10. P. Shi, Z. Dai, H. Zhu, Q. Gao, X. Li and J. Shen (2019), NANOSCALED CHARACTERISTICS OF RECOVERED ASPHALT BINDERS FROM WEATHERED ASPHALT MIXTURES, J. of Testing and Evaluation, Volume 47, Issue 5 (September 2019).
11. Dai Zhen, Junan Shen, Peng Shi, Hui Li (2018), Multi-scaled properties of asphalt binders extracted from weathered asphalt mixtures, International Journal of Pavement Engineering, 18, Dec 2018.
12. J. Yu, Z. Dai, J. Shen and H. Zhu and P. Shi (2018) Aging of asphalt binders from weathered asphalt mixtures compared with a SHRP process, Construction and Building Materials, Volume 160 pp.475-486.
13. Dai Zhen, J. Shen, P. Shi, H. Zhu, and X. Li (2018), Nano-sized morphology of asphalt components separated from weathered asphalt binders, Construction and Building Materials. Volume 182 pp. 588-596.
14. J. Shen, B. Li and Z. Xie (2017), Interaction between crumb rubber modifier (CRM) and asphalt binder in dry process, Construction and Building Materials, Volume 149, pp 202-206
15. G. Zhao, Z. Sun, D. Su, J. Shen (2019), Durability of recycled lime-fly ash treated aggregated as pavement base materials: Chinese experience.
16. B. Liu, J. Shen and X. Sun (2015), Changes in Mechanical and Rheological Properties of Asphalt Binders Caused by Aging, Volume 2015(15)
17. Zhaoxing Xie and Junan Shen (2016), Performance of Porous European Mix (PEM) pavement added with crumb rubbers in dry process, International Journal of Pavement Engineering, Vol.17(7)
18. Zhaoxing Xie and Junan Shen (2016), Effect of Weathering on Rubberized Porous European Mixtures, Journal of Materials in Civil Engineering, ASCE, Vol. 28 (8).
19. Zhaoxing Xie and Junan Shen (2016), Performance Properties of Rubberized Stone Matrix Asphalt Mixtures Produced through Different Processes, Construction and Building Materials, Vol.104, Pages 230-234.
20. Zhaoxing Xie, Junan Shen, Matthew Earnest, Bo Li and Mike Jackson (2015)**,** Fatigue Performance Evaluation of Rubberized Porous European Mixture by Simplified Viscoelastic Continuum Damage Model, Journal of the Transportation Research Board, No. 2506, 90-99
21. Zhaoxing Xie, Junan Shen (2016), Fatigue Performance of Rubberized Stone Matrix Asphalt by Simplified Viscoelastic Continuum Damage Model, Journal of Materials in Civil Engineering, ASCE, Vol.28(4)
22. Kuanbing Song, **Junan Shen,** Jianxing Chen, Wenzhong Fan (2015), Design of water-foamed asphalt binders, Journal of Highway and Transportation Research and Development, (in Chinese) (10, 2015
23. Seonghoon Kim, Junan Shen, Mohammad Ahad (2015), Piezoelectric-Based Energy Harvesting Technology for Roadway Sustainability, International Journal of Applied Science and Technology, Vol. 5, No.1; February 2015
24. Zhaoxing Xie, **Junan Shen**, Zhongyin Guo and Lin Cong (2015) Effect of Distress on Deflection Basins and Backcalculation Modulus of asphalt Pavement with Cement-treated Base, International Journal of Pavement Research and Technology, Volume 8 No. 4, pp 283-288
25. **Junan Shen**, Zhaoxing Xie (2015), Performance of Porous European Mix (PEM) Pavement Added with Crumb Rubbers in Dry Process, International Journal of Pavement Engineering, Published online: 23 Feb 2015.
26. Xinsheng Li, Zhaoxing Xie, Wenzhong Fan, Lili Wang and **Junan Shen** (2015), Selecting Warm Mix Asphalt (WMA) Additives by the Properties of WMA Mixtures ‒ China Experience, The Baltic Journal of Road and Bridge Engineering, The Baltic Journal of Road and Bridge Engineering, Vilnius: 2015, Vol X, No 1, p. 79-88
27. Pengcheng Shi, **Junan Shen**, Jianxing Chen, Wenzhong Fan (2014), Volumetric Performance of Foamed Asphalt Mixtures Contained RAP, Journal of Highway Engineering (in Chinese) Vol.12.
28. [B. Li](http://www.maneyonline.com/action/doSearch?ContribStored=Li%2C+B); [**J. Shen**](http://www.maneyonline.com/action/doSearch?ContribStored=Shen%2C+J); [Z. Xie](http://www.maneyonline.com/action/doSearch?ContribStored=Xie%2C+Z), Influence of trans-polyoctenamer on rheological properties of rubberized asphalt binders after short term aging procedures, Materials Research Innovation, Volume 18, Issue S5 (August 2014), pp. S5-39-S5-41.
29. Bo Li, **Junan Shen**, Zhaoxing Xie, Walker Ozier, Anna Maijala, Investigation of Interaction between Crumb Rubber and Asphalt Binder for SMA Mixtures Using the Dry Process, Electronic Journal of Geotechnical Engineering (EJGE), Vol. 19 [2014], Bund. Z3, pp.17423-17432.
30. Zhoaxing Xie and **Junan Shen** (2014), The Effect of Crosslink Agent on the Performance Properties of CRM Binders, Construction and Building Materials, Volume 67, 2014
31. Zhaoxing Xie, Wenzhong Fan, Lili Wang and **Junan Shen (2014),** Laboratory Investigation of the Effect of Warm Mix Asphalt (WMA) Additives on the Properties of WMA Used in China, Journal of Testing and Evaluation, Volume 42 (5)
32. Zhu Hong, **Shen Junan**, Shi Peng Cheng and Chen Jianxing (2014), Research on Volume Performance of Foamed Warm-mixed Asphalt Mixtures, Journal of Highway and Transportation Research and Development, (in Chinese), Vol.31 No.7
33. Hong Zhu, Zhaoxing Xie, Wenzhong Fan, Lili Wang and **Junan Shen** (2013), Effects of Warm Mix Asphalt (WMA) Additives on the Properties of WMA Mixtures, *Applied Mechanics and Materials Vols. 275-277(2013) pp2097-2102.*
34. Wenzhong Fan, Zhoxing Xie, Xinsheng Li and **Junan Shen (2013),** Influence of Moisture Content of Aggregates on the Properties of Warm Asphalt Mixture, Journal of Science and Technology in Highway Transportation (Application Technology Version), (in Chinese), No.2, 2013
35. Heng-long Zhang, Cai-jun Shi, Jian-ying Yu, **Ju-nan Shen** (2013), Modification and Its Mechanism of Different Asphalt by Polyphosphoric Acid, Journal of Building Materials, (in Chinese), Vol.16, No.2, Apr. 2013, pp.256-260
36. Zhaoxing Xie, Wenzhong Fan, Lili Wang, and **Junan Shen** (2013) The Effectiveness of Warm Mix Asphalt (WMA) Additives Affected by The Type of Aggregate and Binder, Journal of Pavement Research and Technology, Volumes 6, Issue 5, 2013, pp.554-561
37. **Junan Shen**, Zhaoxing Xie, David Griggs and Yaozhong Shi (2012), Effects of Kaolin on the Engineering Properties of Portland Cement Concrete, *Applied Mechanics and Materials Vols. 174-177 (2012) pp.76-81.*
38. **Junan Shen**, Zhaoxing Xie, Feipeng Xiao and Wenzhong Fan (2012), Evaluation of Nano-size Hydrated Lime on the Moisture Susceptibility of Hot Asphalt Mixtures, *Applied Mechanics and Materials Vols. 174-177(2012) pp.82-90.*
39. Feipeng Xiao, Serji Amirkhanian, Hsein Juang, Shaowei Hu and **Junan Shen** (2012), Model Developments of Long-term Aged Asphalt Binders, *37(2012)248-256, Construction and Building Materials*
40. Cheng, J.C, **Shen, J**. Xiao, F.P. (2011), Moisture Susceptibility of Warm Mix Asphalt Mixtures Containing Nano-sized Hydrated Lime. ASCE, J. Mater. Civ. Eng. 23, 1552 (2011)
41. **Shen, J.** (2011), Influence of nano-sized of hydrated lime on selected properties of HMA. International Journal of Pavement Research and Technology, Volume 4, pp 252-257, 2011.7
42. Xiao, F. and **Shen, J.** (2011), Laboratory investigation of engineering properties of rubberized asphalt mixtures containing reclaimed asphalt pavement. *Canada Journal of Civil Engineering, National Research Council Canada, Vol.37* (11), 1414 (9).
43. Huang, B., Shu, X. and **Shen, J.** (2010), Laboratory Evaluation of Moisture Susceptibility of Hot-Mix Asphalt Containing Cementitious Fillers. *Journal of Materials in Civil Engineering, ASCE, Vol. 22*(No. 7), pp.667-673.
44. **Junan Shen,** Serji Amirkhanian, Feipeng Xiao and Boming Tang (2009), Influence of Surface Area and Particle Size on High Temperatures of CRM Binders, Construction and Building Materials, 23(2009)304-310.
45. Feipeng Xiao, Serji Amirkhanian and **Junan Shen** (2009), Effects of Long Term Aging on Laboratory Prepared Rubberized Asphalt Binders, Journal of Testing and Evaluation (ASTM) Vol. 37, No.4, pp. 329-336
46. **Junan Shen,** Serji Amirkhanian, Feipeng Xiao, Boming Tang (2008), Surface Area and Its Influence on High Temperature Viscosity of CRM Binders, International Journal of Pavement Engineering, Vol. 8(1) 1-7
47. Feipeng Xiao, Serji Amirkhaian, **Junan Shen** and Bradly Putman (2008) Influences of Crumb Rubber Size and Type on Reclaimed Asphalt Pavement (RAP) Mixtures, Construction and Building Materials, 23(2009) 1028-1034
48. **Junan Shen,** Serji Amirkhanian, Auna Jennifer (2007), Influence of Rejuvenator on Superpave Recycled HMA, Journal of Materials in Civil Engineering, ASCE, Volume 19, Number 5, pp376-384
49. **Junan Shen,** Serji Amirkhanian, Soon-Jae Lee (2007), HP-GPC Characterization of Recycling of Aged Rubber Modified Binders and Selected Properties, Journal of Materials in Civil Engineering, ASCE, Volume 19, Number 6, pp.515-522
50. **Junan Shen**, Serji Amirkhanian & Boming Tang (2007), Performance-based Properties of Rejuvenated Asphalt Binder Mixture, [Construction and Building Materials](http://www.sciencedirect.com/science?_ob=PublicationURL&_cdi=5702&_pubType=J&_auth=y&_acct=C000053593&_version=1&_urlVersion=0&_userid=1532751&md5=8fed8d76c36fe83c58c2f83d920eacb7)
[Volume 21, Issue 5](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235702%232007%23999789994%23639237%23FLA%23&_cdi=5702&_pubType=J&view=c&_auth=y&_acct=C000053593&_version=1&_urlVersion=0&_userid=1532751&md5=de12a94d06488f10e459adbecb4f5c45) , May 2007, pp. 958-964
51. **Junan Shen**, Serji Amirkhanian & Boming Tang (2006), Influence of Test Temperature on Aging of Binders, The International Journal and Pavement Engineering, Vol. 7(2), pp. 191-198
52. **Junan Shen**, Serji Amirkhanian, Soon-Jae Lee and Brad Putman (2006), Recycling of RAP mixtures Containing Crumb Rubber Modified Binders in HMA, Journal of Transportation Research Board, Transportation Research Record, No. 1962, pp.71-78
53. **Junan Shen,** Serji Amirkhanian, Feipeng Xiao (2006), HP-GPC Characterization of Aging of Recycled Aged Rubberized Binders Containing Rejuvenating Agents, Journal of Transportation Research Board, Transportation Research Record, No. 1962, pp21-27
54. **Junan Shen,** Serji Amirkhanian (2005), The influence of the Microstructures of Crumb Rubber Modifiers (CRM) on the high temperature properties of CRM Binders, The International Journal of Pavement Engineering, Vol. 6 (4), pp. 265-271
55. **Junan Shen,** Serji Amirkhanian, Soon-Jae Lee (2005), The Effects of Rejuvenating Agents on Aged Rubber Modified Binders, The International Journal and Pavement Engineering, Vol. 6 (4), pp. 273-279.
56. Akihiro Moriyoshi**, Junan Shen,** Koseke Ezawa and Takashi Tomato(2005), Comparison of Various Testing Methods for Low-temperatures Properties of Asphalts, Journal of the Japan Petroleum Institute, Vol.48(6), pp336-343.
57. **Junan Shen**, Baoshan Huang and Yoshitaka Hachiya (2004),Validation of SHRP Specification-based Method for Determining Rejuvenator Content in Asphalt Mixtures, International Journal of Pavement Engineering, Vol.5(2), pp103-109.
58. **Junan Shen** and Yoshio Ohne (2002), Determining Rejuvenator Content for Recycling Reclaimed Asphalt Pavement by SHRP Binder specifications, International Journal of Pavement Engineering, Vol.3 (4), pp.261-268.
59. **Junan Shen**, Kenichiro Nomura and Syouji Kinoshita (2002), Performance-based Approach for Determining Optimum Rejuvenator Content in Hot Mix Recycling, Journal of Pavement Engineering, JSCE, Vol.7, pp.28-1, 28-9.
60. **J. Shen**, M. Konno and M. Takahashi (2001), Evaluation of Recycled Asphalt and Recycling Agent Based on SHRP Binder Specification, Journal of Pavement Engineering, JSCE, Vol.6, pp54-60.
61. K. Onitsuka, **J. Shen**, T. Negami and H. Uchihashi (2000), Development useful ground materials by using of soft construction surplus clay--- mixtures of lime, flyash and foamed waste glass, Japanese Society of Geotechnical Engineering, Soils and Foundations, Vol.50. No.9, pp.4-6, 2002.
62. **J. Shen** and K. Onitsuka (2000), Engineering Properties of lime-stabilized soft clay with waste materials, Vol. 1(3), International Journal of Road Material and Pavement Design, pp.29-40.
63. K. Onitsuka and **J. Shen** (2000), Evaluation of lime–stabilized Ariake clay with foaming waste glass as road materials, Vol. 1(1), International Journal of Pavement Engineering, pp.35-47.
64. K. Onitsuka and **J. Shen** (1998), Evaluation of lime-treated Ariake clay with fly ash as road material Journal of Pavement Engineering, JSCE, Vol.3, pp.157-164.
65. **J. Shen** and R. Chen (1991), Method of determine the modules of elasticity of a two-layer foundation under cement concrete pavement, J. of Suzhou Institute of Urban Construction and Environmental Protection, No.1, pp 12-20.
66. J. H. Shenand **J. Shen** (1990), A comprehensive decision-making method of interchange bridges based on Fussy theory, J. of Suzhou Institute of Urban Construction and Environmental Protection, No.1, pp1-8.
67. X. Zhou, **J. Shen** and C. Hu (1987), Analysis of internal stress distribution along reinforcements for retaining wall structure, J. of East China Highway, No. 6, Chinese Society of Highway Engineering.

 ***Peer-reviewed conference papers***

1. Sungun Kim, Myung Kim and Junan Shen (2019), Laboratory Evaluation of Foamed Asphalt Mixtures Containing 100% RAP and Rejuvenator: Georgia’s Experience, TRB 98th annual meeting (2019)
2. Yeusulf A Junan Shen, (2019), Comprehensive Evaluation of the Derivations of rheological properties of asphalt binders for soaking in deicers’ solution, 7th Annual Transportation Research Expo at GDOT
3. Seonghoon Kim, IIan Stern, Junan Shen, Mohammad Ahad, Yong Bai, Safayet Ahmad (2018), Energy Harvesting Assessment Using PZT Sensors and Roadway Materials, TRB 97th Annual Meeting, Washington D.C. (2018)
4. Junan Shen, Sungun Kim and Myung Kim (2018), Georgia Asphalt Mixture Design Criteria Using a Hamburg Wheel-Tracking Device, TRB 97th Annual meeting, Washington D.C. (2018)
5. Sungun Kim, Junan Shen, Myung Jeong (2018), Influence of RAP on Hot Asphalt Mixtures Evaluated by HWTD, 6th Annual Transportation Research Expo at GDOT
6. Sungun Kim, Junan Shen, Myung Jeong (2018), Comparison of the Performance of Asphalt Mixtures with Different Binders Using HWTD, 6th Annual Transportation Research Expo at GDOT
7. Sungun Kim, Junan Shen, Myung Jeong (2018), Effect of Gradations on the Performance of Hot Asphalt Mixtures by HWTD, 6th Annual Transportation Research Expo at GDOT
8. Sungun Kim, Junan Shen, Myung Jeong (2017), Effort of Aggregate Sizes on Performance of Georgia Asphalt Mixtures Evaluated by Hamburg Wheel-Tracking Device, TRB 96th Annual Meeting. Washington, D.C. (2017).
9. Mohammad Ahad, Seonghoon Kim, Junan Shen, Dylan Rice, IIan Stern (2017), Power generation improvement for piezoelectric energy harvesting for roadsides sustainability, IEEE, SoutheastCon 2017.
10. Sungun Kim, Junan Shen and Myung Jeong (2017) Influence of Asphalt Binder Grade on Rutting Resistance and Anti-stripping of Asphalt Mixtures Containing Reclaimed Asphalt Pavement (RAP) Evaluated by Hamburg Wheel-Tracking Device Test, 5th Annual Transportation Research Expo at GDOT.
11. Cindy Yunfeng Chen and Junan Shen (2017), Cognitive Attention and Traffic Crashes: A Study of Countermeasures in Two Intersections and one Section, 5th Annual Transportation Research Expo at GDOT.
12. Junan Shen, Matthew Earnest, Zhaoxing Xie (2016), Selected properties of Hot Mix Asphalt Modified with Recycled Polyethylene Terephthalate, TRB 95th Annual meeting, Washington, DC.
13. Junan Shen, Matthew Earnest, Zhaoxing Xie (2016), High Temperature Properties of Recycled Polyethylene Terephthalate (PET) Modified Asphalt Binders, TRB 95th Annual meeting, Washington, DC.
14. Seonghoon Kim, Stern, Ilan, Shen, Junan, Ahad, Mohammad, Tucker, Zolly (2016), Developing an Energy Harvesting System Using Piezoelectric Materials for Highway Sustainability, TRB 95th Annual meeting, Washington, DC.
15. Sungun Kim, Junan Shen, Myung Jeong (2016), Evaluation of Resistance to Rutting and Moisture Susceptibility on High RAP AC using HWTD, Research Symposium at Georgia Southern University
16. Sungun Kim, Junan Shen and Myung Jeong (2016), Comparison of the performance of Asphalt Mixtures with Different Binders Using Hamburg Wheel Tracking Device, 4th Annual Transportation Research Expo at GDOT.
17. Sungun Kim, Junan Shen and Myung Jeong (2016), Effect of Gradation on the Performance of Hot Asphalt Mixtures by Hamburg Wheel Tracking Device, 4th Annual Transportation Research Expo at GDOT.
18. Sungun Kim, Junan Shen and Myung Jeong (2016), influence of Reclaimed Asphalt pavement (RAP) on Hot Asphalt Mixtures Evaluated by Hamburg Wheel-Track tester, 4th Annual Transportation Research Expo at GDOT.
19. Seonghoon Kim, Junan Shen, Mohammad Ahad, Zolly Tucker IIan Stern (2016), Piezoelectric Energy Harvesting System Assessment for Highway Sustainability, 52nd ASC Annual International Conference Proceedings, Brigham Young University, Provo, UT
20. Zhaxing Xie, Junan Shen (2015), Multi-Scale Evaluation on Interaction between Asphalt and Crumb Rubber, New Frontiers in Road and Airport Engineering, Shanghai, China
21. **Junan Shen** and Zhaoxing Xie (2015), Durability of Porous European Mixture (PEM) with Crumb Rubber Modifier (CRM) In Georgia, The 6th Conference of the European Asphalt Technology Association (EATA), Paper ID: 61, Stockholm, June 15-17, 2015
22. Zhaoxing Xie, Bo Li**, Junan Shen (2015)**, Matthew Earnest and Mike Jackson Design and Selected Properties of PEM Mixtures Containing Crumb Rubber Modifier (CRM) in Dry Process, TRB 94th, Annual meeting, Washington, D.C.
23. Zhaoxing Xie, **Junan Shen**, Bo Li and Mike Jackson (2015), Dynamic Modulus (E\*) of Stone Matrix Asphalt with Crumb Rubber Modifier, TRB 94th Annual meeting, Washington, D.C.
24. Junan Shen and Zhaoxing Xie (2014), Dynamic modulus (E\*) of Porous European Mix (PEM) with CRM modified binders, Oral Presentation, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
25. Zhaoxing Xie and Junan Shen (2014) Performance of Porous European Mix (PEM) pavements added with CRM in dry process, Poster, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
26. Bo Li, Junan Shen and Zhaoxing Xie (2014) Investigation of Interaction between CRM and Asphalt binders in dry process using GPC, Oral presentation, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
27. Zhaoxing Xie, Zhonging Guo and Lin Cong (2014) Evaluation of asphalt pavement with distresses using FWD deflection parameter---- China experience, Poster, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean.
28. Bo Li, J. Lin, Y. Li and L. Li (2014) Laboratory Evaluation of Pavement Performance Burning behavior for asphalt mixtures with flame retardant, Poster, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
29. Zhaoxing Xie, **Junan Shen** (2013), Long-Term Performance of SMA Mixtures Added with Crum Rubbers in Dry Process, Binder and Asphaltic Concrete Characterization and Performance, ASCE, pp.1145-1155, Los Angles, USA
30. Junan Shen, Feipeng Xiao, Evaluations of Nano Lime on Moisture Susceptibility of Hot Mix Asphalt Mixtures**, The 2011 International Conference on Advanced Engineering Materials and Technology (AEMT 2011)**
31. Junan Shen, David Griggs, the influence of Kaolin on the properties of PCC, **The 2011 International Conference on Civil Engineering, Architecture and Building Materials (CEABM 2011), Haikou, Hainan, China.**
32. Shen, J. (2010). In KASAHARA ATSUSI (Ed.), *Volumetric Properties of Hot Mix Asphalt Containing Subnano-Sized Hydrated Lime (SNHL)*. NAGOYA: The 11th International Conference on Asphalt pavements, NAGOYA.
33. Shen, J. (2010). In Kasahara Atsusi (Ed.), *Laboratory Investigation of Rheological and Moisture Susceptibility of WMA Mixtures*. Nagoya: The I1th International Conference on Asphalt, ISAP NAGOYA.
34. **Junan Shen**, Serji Amirkhanian (2009) Comparison of the Properties of Laboratory and Field Prepared CRM Binders, 09 International Conference on Asphalt Rubber, Nanjing, China
35. **Junan Shen**, Baoshan Huang and Xiang Shu (2008), Influence of nano-sized of hydrated lime on selected properties of HMA, TRB 09.
36. **Junan Shen**, Boming Tang, Phillip Ooi and Tangzhi Liu (2007), AGING OF CRUMB RUBBER MODIFIED BINDERS EVALUATED USING FOURIER TRANSFORM INFRARED SPECTRA, 07 Japan-China Workshop on pavement engineering, Sapporo, Japan.
37. **Junan Shen,** Boming Tang and Tangzhi Liu (2007**)** INFLUENCE OF SURFACE AREA AND SIZE OF RUBBER PARTICLES ON THE VISCOSITY OF CRM BINDERS, 07 Japan-China Workshop on pavement engineering, Sapporo, Japan.
38. Feipeng Xao**,** Serji Amirkhanian, **Junan Shen** (2007) Effects of Long-Term Aging on Laboratory Prepared Rubberized Asphalt Binders, Special ICPT Symposium on Road Construction and Maintenance Technology in China, Beijing, China, Mar 16-18, 2007.**Road**
39. **Junan Shen**, Feipeng Xiao and Nirmal Das (2006), Empirical Rutting Models of Recycled Mixtures Containing CRM, Pavement Mechanics and Performance (GSP 154), Proceedings of Sessions of GeoShanghai 2006, pp87.
40. **Junan Shen,** Boming Tang and Onitsuka Katsutada (2005), Evaluation of Recycled Aged Crumb Rubber Modified Binders Using Gel Permeation Chromatography, Nanjing, China, Proceedings of 3rd China-Japan Workshop on Pavement Technology.
41. **Junan Shen,** Serji Amirkhanian, K.W. Kim (2005), Microstructures of Crumb Rubber Modifiers (CRM) and the Rheological Properties of CRM Modified Binders, ‘05 International Conference of Pavement and Airfield Technology, Seoul, South Korea.
42. **Junan Shen,** Serji Amirkhanian, Soon-Jae Lee (2005), GPC Characterization of Recycling of Aged Rubber Modified Binders, ‘05 International Conference of Pavement and Airfield Technology, Seoul, South Korea.
43. **Junan Shen,** Serji Amirkhanian, Soon-Jae Lee (2005), GPC Characterization of Aging of Recycled Aged Rubber Modified Binder, ‘05 International Conference of Pavement and Airfield Technology, Seoul, South Korea.
44. **Junan Shen,** Serji Amirkhanian, Soon-Jae Lee (2005), Effects of rejuvenating agents on aged rubber modified binders, TRB 84th Annul Meeting compendium of Papers CD-ROM, Washington, D.C.
45. **J. Shen,** K. Nomura and Y. Hachiya (2003), PAV test temperature influence on the properties of aged binder**,** Proceedings of the 2nd China/Japan workshop on pavement technologies, Tokyo, Japan.
46. Y. Hachiya, K. Nomura and **J. Shen** (2003), Accelerated aging tests for asphalt concrete, the 6th RILEM Symposium: PTEBM’03, Zurich.
47. M. Konno, **J. Shen**, K. Nomura and T. Kozai, (2001), Study on improvement of the anti-weathering property of asphalt, Proceedings of China/Japan workshop on pavement technologies, Shanghai, China.
48. K. Onitsuka, T. Negami and **J. Shen** (2001), Investigation on the microstructure of Ariake clay from mechanical viewpoint, Proceedings of international conference on suction, swelling, permeability and structure of clays- - in relation to soil contamination and waste disposal, IS-Shizuoka, Japan, pp. 419-422.
49. K. Onitsuka, **J. Shen**, Y. Hara and M. Sato (2001), Utilization of foaming waste glass as construction materials, Proceedings of International Symposium of Recycling and Reuse of Glass Cullet, Dundee University, Scotland, pp. 195-207.
50. **J. Shen** and K. Onitsuka (2001), Determination of plate-loading modulus from E50 of unconfined compression test, Proceedings of the Tenth International Conference on Computer Methods and Advances in Geomechanics, Tucson, Arizona, Vol.2, pp.981-984.
51. K. Onitsuka and **J. Shen** (2000), Case studies on utilization of foaming waste glass as lightweight fill materials, Proceedings of the 3rd International Symposium on Geo-technics Related to the European Environment, Berlin, Germany.
52. K. Onitsuka, **J. Shen**, Y. Hara and M. Yokoo (1999), Engineering properties and effective utilization of foaming waste glass material, Proceedings of Civil and Environmental Engineering Conference, New frontiers and Challenges, Bangkok, Vol.2 pp. VI 43-52.
53. K. Onitsuka, T. Negami and **J. Shen** (1999), A study on the relationship between mechanical properties and microstructure of Ariake clay, Proceeding of the 9th International Offshore and Polar Engineering Conference, Brest, France, pp.739-744.
54. K. Onitsuka and **J. Shen** (1998), The effect of elasto-plastic model on the stress in flexible pavement structure, Proceedings of the 3rd International Conference on Road & Airfield Pavement Technology, Beijing, Vol.2, pp. 460-467.
55. K. Onitsuka and **J. Shen** (1998), Consolidation induced strains in asphalt concrete pavement, Proceedings of 5th International Conference on the Bearing Capacity of Roads and Airfield, Trondheim, Norway, pp. 717-726.
56. **J. Shen** (1997), Finite element modeling of rutting phenomena in road pavement structure, Report 97:2, Department of structure mechanics, Chalmers University of Technology.

***Oral presentations at national and international conferences:***

1. Sungun Kim, Myung Kim and Junan Shen (2019), Laboratory Evaluation of Foamed Asphalt Mixtures Containing 100% RAP and Rejuvenator: Georgia’s Experience, TRB 98th annual meeting (2019)
2. Seonghoon Kim, IIan Stern, Junan Shen, Mohammad Ahad, Yong Bai, Safayet Ahmad (2018), Energy Harvesting Assessment Using PZT Sensors and Roadway Materials, TRB 97th Annual Meeting, Washington DC.
3. Influence of RAP on Hot Asphalt Mixtures Evaluated by HWTD, 4th Annual Transportation Research Expo at GDOT, (2016)
4. Comparison of the Performance of Asphalt Mixtures with Different Binders Using HWTD, 4th Annual Transportation Research Expo at GDOT, (2016)
5. Effect of Gradations on the Performance of Hot Asphalt Mixtures by HWTD, 4th Annual Transportation Research Expo at GDOT, (2016)
6. Evaluation of Resistance to Rutting and Moisture Susceptibility on High RAP AC using HWTD, Research Symposium at Georgia Southern University, (2016)
7. Selected properties of Hot Mix Asphalt Modified with Recycled Polyethylene Terephthalate, TRB 95th Annual meeting, Washington, DC. (2016)
8. High Temperature Properties of Recycled Polyethylene Terephthalate (PET) Modified Asphalt Binders, TRB 95th Annual meeting, Washington, DC. (2016)
9. Developing an Energy Harvesting System Using Piezoelectric Materials for Highway Sustainability, TRB 95th Annual meeting, Washington, DC. (2016)
10. Durability of Porous European Mixture (PEM) with Crumb Rubber Modifier (CRM) In Georgia, The 6th Conference of the European Asphalt Technology Association (EATA), Paper ID: 61, Stockholm, June 15-17, 2015
11. Fatigue Performance Evaluation of Rubberized Porous European Mixture by Simplified Viscoelastic Continuum Damage Model, TRB 94th, Annual meeting, Washington, D.C., 2015
12. Design and Selected Properties of PEM Mixtures Containing Crumb Rubber Modifier (CRM) in Dry Process, TRB 94th, Annual meeting, Washington, D.C., 2015
13. Dynamic Modulus (E\*) of Stone Matrix Asphalt with Crumb Rubber Modifier, TRB 94th Annual meeting, Washington, D.C., 2015
14. Design and Selected Properties of PEM Mixtures Containing Crumb Rubber in Dry Process, GDOT/GTI Poster Session, 2014, Atlanta
15. Nano-Scale Evaluation on Interaction between Asphalt and Crumb Rubber, GDOT/GTI Poster Session, 2014, Atlanta
16. Micro-level Analysis and Rheological Properties of Asphalt Binder Containing CRM by Dry Process, GDOT/GTI Poster Session, 2014, Atlanta
17. Dynamic modulus (E\*) of Porous European Mix (PEM) with CRM modified binders, Oral Presentation, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
18. Performance of Porous European Mix (PEM) pavements added with CRM in dry process, Poster, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
19. Investigation of Interaction between CRM and Asphalt binders in dry process using GPC, Oral presentation, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
20. Evaluation of asphalt pavement with distresses using FWD deflection parameter---- China experience, Poster, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean,
21. Laboratory Evaluation of Pavement Performance Burning behavior for asphalt mixtures with flame retardant, Poster, 2014 Advanced Technologies of Asphalt Pavement, Chuncheon, Southern Korean
22. Long-term Performance of Rubberized Asphalt Pavement, 2013 TRB annual meeting, AFK30 committee, Washington D.C. Jan. 2013
23. The Effect of Crosslink Agent on the Performance Properties of CRM Binders, 1st Annual International Recycled Rubber Products Technology Conference, Las Vegas, October 2013
24. Laboratory Investigation of the Effect of Warm Mix Asphalt (WMA) Additives on the Properties of WMA Used in China, 4th International Conference on Asphalt Materials, 2013, Guangzhou, China
25. A Comparative Study on the Influence of Warm Mix Asphalt (WMA) Additives on the Properties of WMA Mixtures, the 2nd International Conference on Sustainable Construction materials (SusCoM), October 18-22, 2012, Wuhan, China
26. Evaluations of Nano Lime on Moisture Susceptibility of Hot Mix Asphalt Mixtures**, The 2011 International Conference on Advanced Engineering Materials and Technology (AEMT 2011)**
27. The influence of Kaolin on the properties of PCC, **the 2011 International Conference on Civil Engineering, Architecture and Building Materials (CEABM 2011), Haikou, Hainan, China.**
28. **Volumetric Properties of Hot Mix Asphalt Containing Subnano-Sized Hydrated Lime (SNHL).** NAGOYA: The 11th International Conference on Asphalt Pavements, ISAP NAGOYA, 2010
29. Laboratory Investigation of Rheological and Moisture Susceptibility of WMA Mixtures. Nagoya: The I1th International Conference on Asphalt Pavement, ISAP NAGOYA, 2010
30. HP-GPC Characterization of Aging of Recycled Aged Rubberized Binders Containing Rejuvenating Agents, Oral presentation, 06 TRB, Washington D.C.
31. Recycling of RAP mixtures Containing Crumb Rubber Modified Binders in HMA, Oral presentation, 06 TRB, Washington D.C.
32. The Effects of Rejuvenating Agents on Aged Rubber Modified Binders, Poster Session, TRB 05, Washington D.C.
33. Performance-based approach for determining optimum rejuvenator content in hot mix recycling, Journal of Pavement Engineering, 7th Japanese conference of pavement engineering, Tokyo, Japan, 2002.
34. Evaluation of recycled asphalt and recycling agent based on SHRP binder specification, Journal of Pavement Engineering, 6th Japanese conference of pavement engineering, Tokyo, Japan, 2001.
35. Case studies on utilization of foaming waste glass as lightweight fill materials, the 3rd International Symposium on Geotechnics Related to the European Environment, Berlin, Germany, 2000.
36. Selected mechanical properties of lime stabilized soft clay with foamed waste glass, Japanese Society of Geotechnical Engineers, Tokyo, Japan, 1999.
37. Stress analysis of asphalt pavement structures under soft ground, Japanese Society of Geotechnical Engineers, Yamanokuchi, Japan, 1999.
38. Strain analysis of asphalt pavement structures under soft ground, Japanese Society of Geotechnical Engineers, Hiroshima, Japan, 1999.
39. The effect of elasto-plastic model on the stress in flexible pavement structure, 3rd International Conference on Road & Airfield Pavement Technology, Beijing, 1998.
40. Evaluation of lime-treated Ariake clay with fly ash as road materials, J. of Pavement Engineering, 3rd Japanese conference of pavement engineering, Tokyo, Japan, 1998.
41. Selected mechanical properties of lime stabilized soft clay with fly ash, Japanese Society of Geotechnical Engineers, Tokyo, Japan, 1998.
42. Pavement rutting simulation with FEM, Japanese Society of Civil Engineers, west branch, Kumamoto, Japan, 1998
43. Selected mechanical properties of lime stabilized soft clay with fly ash, Japanese Society of Geotechnical Engineers, Tokyo, Japan, 1998.
44. Pavement rutting simulation with FEM, Japanese Society of Civil Engineers, west branch, Kumamoto, Japan, 1998.

**Research Proposals:**

***Funded externally:***

1. Maximizing Port and Transportation System Productivity by Exploring Alternative Port Operation Strategies, GDOT/UTC, Co-PI, (with Georgia Tech Savannah), 2009, US$320,000
2. Volumetric properties of hot mix asphalt added with nano-sized hydrated lime, submitted to Officer of Research service and sponsored program, University Faculty Research Grant, PI, $9,321, partially funded, 2009, US$6, 321.
3. GDOT: A comprehensive evaluation of long performance of rubberized pavements, Phase I, PI, 2010, US$74,568.
4. GDOT: A comprehensive evaluation of long performance of rubberized pavements, Phase II, PI, 2011, US$299,568.
5. Arizona Chemical Company, LLC, Performance Properties of Rejuvenated Reclaimed Asphalt Pavement, Task 1, 2013, US$3,200, (PI).
6. Hamburg Testing Criteria for Georgia Asphalt Mixtures, GDOT, PI, 2015, US$185,000.
7. Evaluation of Structural Integrity for a Foamed Asphalt Course with a High-RAP Content, GDOT, Co-PI, 2015, US$188,023.
8. Piezoelectric-Based Energy Harvesting Technology Assessment throughout Lab-Scale Experiment, part of a project entitled, “Piezoelectric Material (PZ) Testing for the KSC (Kennedy Space Center) Vapor Trail Walkway Project” Sponsored by GTRI, $74,000, February, 2016, Co-PI.
9. Renewal of a project entitled, “Piezoelectric Material (PZ) testing for the KSC (Kennedy Space Center) Vapor Trail Walkway Project” Phase 2, Sponsored by GTRI, $77,626, December, 2016, Co-PI.
10. Optimizing Winter Roadway Treatments for Georgia Pavement, GDOT, PI, 2019, US$ 169,000
11. Cognitive Attention and Its Application in Countermeasures on a Curve Section, GDOT, PI, 2019, US$ 170,000

***Not funded: (since 2005-US$2.5 million; since 2010 after tenure-US$944K)***

1. Aging of Modified Asphalt Binders Evaluated Using Fourier Transform Infrared Spectrum, submitted to Officer of Research Service and Sponsored Program, University Faculty Research Grant, PI, $8,813, 2006, not funded.
2. Permeable Asphalt Mixture Containing Crumb Rubber Used for Parking Lots, submitted to Georgia Environment Protection Division, PI, $196,735, 2007, not founded.
3. The use of high percentage of Reclaimed Asphalt Pavement (RAP) in hot mix asphalt, submitted to National Cooperative Highway Research Program, Co-PI (with Clemson University as PI), $78,000, 2007, not funded.
4. The Use of High Percentage of Reclaimed Asphalt Pavement in Superpave Mixtures, submitted to Georgia Department of Transportation, PI, $300,000, 2007, not approved.
5. MRI: Acquisition of advanced asphalt testing equipment to enhance the civil engineering research and training, submitted to National Science Foundation, PI, $160,349, 2008, not funded.
6. Application of nano-scale sensor on infrastructure health mentoring, IDEA, FHWA, $378,000, pending, Co-PI with Georgia Tech as PI (with Georgia Tech, Atlanta), 2008, rejected
7. Characterization of Crumb Rubber Modified Binder for Superpave Mixtures, submitted to Georgia Department of Transportation, PI, $300,000, 2008, not approved.
8. Nano-lime The Influence of Nano-Sized Hydrated Lime on the Performance Properties of HMA, Submitted GDOT, PI, $180,000, 2009, not funded.
9. GDOT: Foamed Asphalt Rubber Warm Technology for Recycling High Percentages of Reclaimed Asphalt Pavement (RAP), $251,358, 2011, not funded.
10. GPC (Georgia Power Company): Database of the Properties of CCPs Produced in Georgia Power Plants, $75,000, 2011, Rejected.
11. GPC: Beneficial Use of the Fly Ash Generated in Georgia as Structure Fills, $75,000, 2011, Rejected.
12. University of Georgia for The Board of Regents of the University System of Georgia, Cultivating Culturally Responsive and Challenging Pedagogy Literacy Across Middle School Content Area, $67,995, (Investigator), 2013, not funded.
13. NYSERDA, Road Power Generation, $225,059, (Co-PI), 2013, not founded.
14. Arizona Chemical Company, LLC, Performance Properties of Rejuvenated Reclaimed Asphalt Pavement, Task 2 (A, B, C, D, E), $250,000, (PI), 2014, pending.

***Lab Equipment and Renovation Investment Secured (US$540K for equipment and US$130K for renovation)***

1. Equipment for an Advanced Asphalt Research Lab, End of the year money, GSU, 2011 ----$250,000.
2. Equipment for an Advanced Asphalt Research Lab, End of the year money, GSU, 2013, GSU ------$110,000.
3. Equipment for an Advanced Asphalt Research Lab, End of the year money, GSU, 2014 ----$120,000
4. Renovation funding for Advanced Research Lab, End of the year money, GSU, 2014 ------$130,000
5. Equipment for an Advanced Asphalt Research Lab, End of the year money, GSU, 2015------- $60,000
6. Equipment for Wirtgen Foamer, End of the year money, GSU, 2016------$76,000

**Educations:**

**Post Doctorate Fellow**, Clemson University, SC, USA, 2003-2005

 **Ph.D.** Transportation/Geotechnical Engineering, Saga University, Kyushu, Japan, 2000

 **M.S.** Structural Engineering, Chalmers University of Technology, Sweden, 1997

 **M.S.** Pavement Engineering, Southeast University, Nanjing, China, 1990

 **B.S.** Highway Engineering, Southeast University, Nanjing, China, 1985

 ***Continuing Educations:***

 Certificate, National Center for Asphalt Technology (NCAT), Auburn University,

 USA, 2004, Professor Training Course in Asphalt Technology

 Workshop for Program Assessment, Evaluation, and Improvement (ABET),

 Georgia Southern University, April 6-7, 2007

 Certificate, Professional Grant Development Workshop, Georgia Institute of Technology, Atlanta, Georgia, may 14-16, 2007

 Certificate, Concrete Pavement Workshop, ACPA offices, Skokie, IL, June 16-19, 2008

**Teachings:**

***Courses taught at SIUCEP (1987-1995) (S-spring semester, F-fall semester)***

Construction Materials (F87, F88, F89, F90, F91, F92, F93, F94)

Subgrade Design (F87, F88, F89, F90, F91, F92, F93, F94)

Pavement Design (S88, S89, S90, S91, S92, S93, S94, S95)

Traffic Engineering (S88, S89, S90, S91, S92, S93, S94, S95)

Urban Road Design (S88, S89, S90, S91, S92, S93, S94, S95)

***Courses taught at Georgia Southern University (2005- )***

TCET 4244 Soils and Foundations (F05, F06, F07, F08, F09, F10, F11)

TCET 4243 Highway Design (F05, F06, F07, F08, F09, F10, F11)

TENS 2143 Strength of Materials (S06)

TCM 2240 Introduction to Structures (F06, S07, Summer 07, Summer 09,

Summer 10)

TCET 3233 Transportation System (S06, S07, S08, S09, S10, S11)

TCET 3234 Construction Materials (S06, S07, S08, S09, S10, S11)

TCET 8940 Special Problem (Summer 08, Summer 10)

TCET 8940 Advanced Special Problem (F10)

TCET 4536 Senior Projects (Summer 08, Summer 09)

TCM 2340 Construction Site (Summer 2010)

JAN 1001 Elementary Japanese (S06, F08)

***Courses taught at Georgia Southern University (2011- )***

CENG 3232 Highway Design I (F12, F13)

CENG 4231 Highway design II (S 14, S15)

CENG 3233 Civil Engineering Materials (S11, S12, S13, F14, S15, F15, S16,

F16, S17, F17, S18, F18, S19, F19)

CENG 4234 Asphalt Mix Design (S12, S13, S14, S15, S16, S17, S19)

CENG 5234 Pavement Analysis and Design (F14, F15, F16, F17, F18, F19)

CENG 4539 Senior Project Design (F13, F14, F17)

TMAE 7999 Special topics (S13, F13, S14, F14, F19)

CENG 7891 A Master’s Project (F19)

***Graduates advised***

1. Matthew Earnest 2013-2014
2. Joseph Capello 2013-2014
3. Yeusuf Ahmed 2017-2019
4. Mehedi Hasan 1. 2017-5.2017
5. Sandra Yankine 2018-
6. Tracey Curtis 2018-

***Undergraduate researches mentored for COUR Projects (2005- )***

1. Anna Maijala, 2014-2015, GPC analysis of asphalt aging
2. Walker Ozier, 2014-2015, AFM based micro-structure of aged asphalt binder
3. Matthew Hodell, 2013-2014, Characterization of Reclaimed Asphalt Pavement, $2,400
4. Kye Johnston, 2013-2014, Design of Porous European Asphalt Mixtures Using CRM, $2,000
5. Matthew Earnest, 2013-2013, Interaction of Crumb Rubber and Asphalt Binder
6. Christine Fish, 2011-2012, Maximizing Port and Transportation System productivity by Exploring Alternative Port Operation Strategies, $2,000
7. Issouf Sadadogo, 2011-2012, Maximizing Port and Transportation System productivity by Exploring Alternative Port Operation Strategies, $1,800
8. Mackenize Rowland, 2010-2011, Properties of rubberized concrete, $2400
9. Donald Singer, 2010-2011, Influence of UV aging on the properties of binder, $2500
10. Sarah Labella, 2009-2010, Study of Travel Speed and Delay in Statesboro Using GPS and GIS Technologies, US$ 1,822
11. David Griggs, 2009-2010, Alleviation of Alkali Silicate Reaction in Portland Cement Concrete Using Kaolin, US$ 1,450
12. Collin Westlake, 2008-2009, Properties of Soft Clay stabilized by Crumb Rubber Modifiers, US$ 600
13. Wesley Reeds, 2006-2007, Size Influence of Engineering Properties on Rubberized Concrete, US$ 600
14. John Thomas Hudson, 2005-2006, Strength and Expansion properties of Rubberized Concrete, US$ 2,305

***Young faculty member mentored***

1. Myung Jeong, faculty member of Department of Civil Engineering and Construction, 2013-2017

***Young faculty members co-authored with a proposal***

1. Yunfeng Chen, faculty member of Department of Civil Engineering and Construction
2. Weinan Gao, faculty member of Department of Electrical Engineering and Compering
3. Myung Jeong, faculty member of Department of Civil Engineering and Construction
4. Xuchun Ren, faculty member of Department of Mechanical Engineering
5. Celin Manoosingh, faculty member of Department of Civil Engineering and Construction
6. Seonghoon, Kim,faculty member of Department of Civil Engineering and Construction
7. Xiaoming Yang, faculty member of Department of Civil Engineering and Construction
8. Weihua Ming,faculty member of Department of Chemistry
9. Yunghang Jung, faculty member of Department of Construction Management and Civil Engineering
10. Junsuk Kang, faculty member of Department of Civil Engineering and Construction Management

***Post-doctoral fellows advised***

1. Dr. Qing Yang 2.2014-10.2014
2. Dr. Zhaoxing Xie 9.2011-12.2014
3. Dr. Bo Li 1.2014-12.2014
4. Dr. Sungun Kim 4.2015-11.2018

**Professional Affiliations:**

Sigma Xi, The Scientific Research Society

Transportation Research Board

Association of Asphalt Pavement Technologist

Japanese Society of Civil Engineers

Japanese Society of Geotechnical Engineers

Korean Society of Road Engineers

**Honors:**

09 Recipient of Awards of Excellence in Research, Georgia Southern University

Valedictory, Graduate School, Saga University, Japan, 2000

Japanese Monbusho Scholarship Winner, Japan, 1997-2000

STINT scholarship holder, Sweden, 1996-1997

**Professional Service:**

***Journal Editor Member:***

 Associate Editor: Journal of Materials in Civil Engineering (impact factor:1.3), 2011-

 Editor Board member: The International Journal of Pavement Engineering, 2008-2012

***Journal peer Reviewer for:***

 Journal of Materials in Civil Engineering (impact factor:1.3), ASCE, 2004-

 The International Journal of Pavement Engineering (impact factor:0.706), 2004-

 Journal of Transportation Research Record (impact factor:0.556), 2004-

 Construction and Building Materials (impact factor:2.30), 2004

 The International Journal of Pavement Research and Technology (impact factor:0.71), 2007-

 Journal of Association of Asphalt Paving Technologists 2007-

 Journal of Testing and Evaluation (impact factor:0.38), ASTM, 2008-

 Fuel (impact factor:3.52)

 Canada Geotechnical Journal (CGJ), Canada, 2012-

 Canada Journal of Civil Engineering, CSCE 2012-

 Koran Journal of Civil Engineering, South Korean 2010-

 Journal of Southeast University, China, 2010-

***Conference Paper Reviewer for:***

 05 International Conferences of Pavement and Airfield Technology, Seoul Korean

 05 China-Japan Workshop on Pavement Technology

 Proceedings of McMat2005, Joint ASME/ASCE/SES Conference on Mechanics

 and Materials

 07 GEO-INSTITUTE OF ASCE GSP,Engineering Mechanics Division (EMD)

 / Pavement Mechanics

 09 Asphalt Rubber International Conference, Nanjing, China

 12 Asphalt Rubber International Conference, Munich, Germany

 15 Asphalt Rubber International Conference, Las Vegas, USA

***Committee member as***

Technical Committee Member, 15’ Asphalt Rubber International Conference,

Las Vegas, USA

Technical Committee Member, 12’ Asphalt Rubber International Conference,

Munich, Germany

Technical Committee Member, 09 Asphalt Rubber International Conference, Nanjing, China Committee Member of Pavement Engineering, 2008-

Scientific Committee Member, 2010, 2012, 2014, The 11th International Symposium on Advanced Technologies in Asphalt Pavement (ATAP)

 North America Chinese Oversee of Transportation Association, 2005-

 A friend of committee AFK30,--Characteristics of Bituminous Materials Committee, TRB

 A friend of committee ADC60,- -Waste Management & Resource Efficiency in

 Transportation, TRB