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[1]Civil Engineering Website has a set of USC Campus Photosprovided by Prof.hlwong@usc.edu .
[2]Students of Cvil& Environmental EngineeirngGraduate Program in Ph.D Program.
[3]Research Duty takes over 40+%, [4]Teaching Duty takes 40-%, and
[5]Administrative Duty takes 20-% of work load .

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Hyperlink:

1) ***Scholar Citations (Google)*: *(Jan 2018 – Citations:5161,h-index:35, i10-index:124)***
2) **Academic Research (Microsoft):** *Author: VWLee*
3) **ResearchGate**

I) Academic Career

i) Academic Appointments @ University of Southern California(U.S.C.),

Professor	**Civil & Environmental Engineering**	**2003 – now**
Associate Professor	**Civil & Environmental Engineering**	**1990 – 2002**
Assistant Professor	**Civil Engineering**	**1983 – 1989**
Research Associate, Research Asst. Prof. (82-83)	**Civil Engineering**	**1979 – 1983**

ii) Education@ CaLTechand U.S.C.

University of Southern California	**Ph.D.**	Civil **Engineering**	**1980**
California Institute of Technology	**M.Sc.**	Applied **Mechanics**	**1976**
California Institute of Technology	**M.Sc**	**Mathematics**	**1974**
California Institute of Technology	**B.Sc.(Honor)**	**Mathematics**	**1973**

iii) Awards and Honors

USC Faculty Honor Roll On Teaching: Rated ≥ 4.25 of 5 (Undergraduate), ≥ 4.5 of 5 (Graduate)

Spr 07: CE565(4.50) **Fall 07:** 507 (4.75)
Spr 05: CE225 (4.31) **Spr 04**: 225 (4.29) CE565 (4.83) **Spr 03**: 565 (4.80) **Spr 02**: 225 (4.26)
Sum 00: CE325 (4.60) **Spr 00**: 565 (4.67) **Fall 99**: 325 (4.44) **Spr 99**: 565 (4.50), 225 (4.28)
Fall 98: CE225 (4.56) **Spr 98**: 225 (4.33),CE565 (4.50) **Sum 97**: 325 (4.28) **Spr 97**: 225 (4.39)

2009 - Exceptional Service Award, Sony AstaniCivil& Environmental Engineering, U.S.C.
2005 - The George V. Chillingar medal of Honor "Scientists without Borders" Award, Russian Academy of Natural Sciences
2003 - "Peter the Great Award" Medal,Russian Academy of Natural Sciences
2002 - Invited Honor Professor, School of Civil Engineering, Tianjin University, Tianjin, 300072 China
1998 - Elected Foreign member of the National Academy of Engineering of Armenia
1996 -School of EngineeringOutstanding Teaching Award, Excellence in teaching in C.E. Dept. in 1996

iv) Selected Extra-curricular Activities

2017 - Civil Engineering Industry Liason Council (CEILC), Calstate Northedige, Los Angeles.
Feb 09- : Editorial Board, Journal of Earthquake Science, ActaSeismologicaSinica.
Mar 06-2016: Advisory Board, Civil and Environmental Science, Loyola Marymount Univeristy, Los Angeles.
1990- : American Society of Civil Engineers (A.S.C.E.), Engineering Mechanics Division (E.M.D.), Dynamics Committee –Technical Member.
Aug 11, 97: Invited Review Panel for Small Business Innovation Research (SBIR) Mitigation & Hazard

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	Program, National ScienceFoundation (NSF), Arlington, Virginia
Dec 96:	Invited Guest Scientist, Short Course on Seismic Risk, held at New Delhi, by Department of Civil Engineering, Indian Institute of Technology, Kanpur, India.
Dec 93:	Invited Guest Scientist, Civil Engineering Dept., University of Roorkee, Roorkee, U.P., India.
Jun 92:	Invited Guest Scientist, Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan
1985, 87:	Invited Guest Scientist, Central Laboratory for Seismic Mechanics and Earthquake Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria.
1983:	United Nations Development Program (UNDP) Consultant on Mission to: Institute of Earthquake Engineering, China Academy ofBuilding Research, Beijing, China

II) Scientific PublicationsA)JournalsB)ReportsC)Invited Talks…D)Conferences…,

The names of all co-authors of the following publications are among *(but not limited to)* the list that may have Links to their Webpages (accessed by clicking them):

A. Amini	**J.P. Bardet**	**H. Cao (Tom)**	**C.A. Davis**	
N. Dermendjian	**I.D. Gupta**	**V.K. Gupta**	**L.R. Jordanovski**	**J. Karl**
S.B. Kojic	**V.W. Lee**	**J.-W. Liang**	**C-H. Lin**	**H. Luo (Harry)**
M.E. Manoogian	**D. Nenov**	**E.I. Novikova**	**L Paskaleva**	**M.S. Sabban**
R. Sherif	**M.I. Todorovska**	**M.D. Trifunac**	**Y.Y. Wang**	**X.Y. Wu**

Google Documents: **http://docs.google.com**, **vlee1225**

Microsoft Workspace:

: PDF File of Publications Posted on web **Open to All with Link**

: Zip File of Publications Posted on web

: Citations of Publications Posted on web

Reserachgate Citations: https://www.researchgate.net/profile/Vincent_Lee6?sorting=recent

Elsevier Citation: https://www.mendeley.com/profiles/vincent-lee37/stats/

Google Scholar Citations: https://scholar.google.com/citations?user=fe2uesEAAAAJ

ResearchGate Citations	**Jun 2019 Citations:4086 Reads:16,243**
Apr 2018 Citations:3998 Reads:13,252	**Jun 2018 Citations:4034 Reads:13,697**
Elsevier (Mendeley) Citations $1,5Le@9,8	**https://www.mendeley.com/profiles/vincent-lee37/stats/**
Jun 2019 Citatioons:2590 h-index:27	**Mar 2018 Citatioons:2229 h-index:26**
Apr 2018 Citatioons:2250 h-index:26 Views:26,891	**Jun 2018 Citatioons:2281 h-index:26 Views:27,629**
Sep 2018 Citations: 2360 h-index:26 Views:28,423	
Google Scholar Citations	***Jan 2018 – Citations:5161,h-index:35, i10-index:12***
Jun 2019 – Citations:6122, h-index:39, i10-index:145	***Apr 2018 – Citations:5477,h-index:37, i10-index:132***

A) Journals: i) Published *ii) In Press* *iii) In Review* *iv) Pending / Unpublishd*

All publications, if exist, are posted on

Either Google Documents, Microsoft Workspace (both by invitation to view):

or NISEE (Pacific Earthquake Engineering Online Archive):

To access it, Please email : vlee@usc.edu to request the link for copy/view.

i)Published ,

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0. **V.W. Lee & M.E. Nadel** On the Number of Generic Models, *Fundamenta Mathematicae,XCI,110,* 105-115, *11 Pages, 5 Refs.,* **75.**
1. **V.W. Lee & M.E. Nadel** Remarks on Generic Models, *FundamentaMathematicae,XCV, 115,* 73-84,, **77.**
2. **V.W. Lee & M.D. Trifunac** A Note on the Accuracy of Computed Ground Displacements from Strong-Motion Accelerograms , *Bull. Seismo. Soc. America*, 64, 1209-1219, *11 Pages, 11 Refs.,***Aug, 74 [Citations].**
3. **V.W. Lee & M.D. Trifunac** Response of Tunnels to Incident SH Waves, *J. Eng. Mech., A.S.C.E.,*105, 643-659, *17 Pages, 4 Refs.,* **Aug, 79 [Citations].**
4. **M.D. Trifunac& V.W. Lee** Fourier Amplitude Spectra of Strong-Motion Acceleration, *Bull. European Assoc. of Earthquake Eng. (E.A.E.E)*, 6, 2-18, *17 Pages, 18 Refs.,***80 [Citations].**
5. **V.W. Lee, M.D. Trifunac& C.C. Feng** Effects of Foundation Size on Fourier Amplitude Spectra of Earthquake Accelerations Recorded in Buildings, *Int. J. Soil Dynamics & Earthquake Eng., 1(2),* 52-58, *7 Pages, 12 Refs.,***Apr, 82 [Citations].**
6. **V.W. Lee** A Note on the Scattering of Elastic Plane Waves by a Hemispherical Canyon, *Int. J. Soil Dynamics & Earthquake Eng., 1(3),* 122-129, *8 Pages, 17 Refs.,***Jun, 81 [Citations].**
7. **V.W. Lee & M.D. Trifunac** Body Waves Excitation of Embedded Hemisphere, *J. Eng. Mech., A.S.C.E., 108,* 546-563, *18 Pages, 13 Refs,* **Jun, 82 [Citations].**
8. **V. W. Lee, M.D. Trifunac& A. Amini** Noise in Earthquake Accelerograms, *J. Eng. Mech., A.S.C.E., 108,* 1121-1129, *9 Pages, 22 Refs,* **Dec, 82 [Citations].**
9. **V.W. Lee& Y.Y. Wang** On the Instrument Correction of RDZ-I Strong-Motion Pendulum Galvanometer in China, *Earthquake Eng. & Eng. Vibration, 3(4)*, 25-35, *11 Pages, 6 Refs.,***Dec, 83**.
10. **V. W. Lee** Three-Dimensional Diffraction of Plane P, SV and SH Waves by A Hemispherical Alluvial Valley, *Int. J. Soil Dynamics & Earthquake Eng., 3(3), 133-144, 12 Pages, 22 Refs.,***Jun, 84 [Citations].**
11. **V. W. Lee** A New Fast Algorithm for the Calculation of Response Spectra Using the Digital Simulation of a Single-Degree-of-Freedom System to An Arbitrary Load in Time, *Int. J. Soil Dynamics & Earthquake Eng., 3(4), 191-199,9 Pages, 8 Refs.,***Aug, 84 [Citations].**
12. **V. W. Lee &M.D. Trifunac** Torsional Accelerograms, *Int. J. Soil Dynamics & Earth quake Eng., 4(3), 132-139,8 Pages, 12 Refs.,***Aug, 85 [Citations].**
13. **V. W. Lee& M.D. Trifunac** A Note on the Time of Maximum Response of Single-Degree-of- Freedom Oscillator to Earthquake Excitation, *Int. J. Soil Dynamics & Earthquake Eng., 5(2), 119-129, 11 Pages, 16 Refs.,***Apr, 86 [Citations].**
14. **V. W. Lee&M.D. Trifunac** Rocking Strong Earthquake Accelerations, *Int. J. Soil Dynamics & Earthquake Eng., 6(2),* 75-89, *15 Pages, 16 Refs.,***Apr, 87 [Citations].**
15. **V. W. Lee**SeismicMicrozonation Method Based on Modified Mercalli Intensity Scaling, *Earthquake Eng.&Eng. Vibration, 7(3),* 47-63, *17 Pages, 38 Refs.,***Sep, 87 [Citations].**
16. **V. W. Lee** Three-Dimensional Diffraction of Elastic Waves by a Spherical Cavity in an Elastic Half- Space I: Closed-Form Solutions, *Int. J. Soil Dynamics & Earthquake Eng., 7(3),* 149-161, *13 Pages, 21 Refs.,***July, 88 [Citations].**
17. **V. W. Lee** Discussion on a Paper byJ.L. Beck & M.J. Dowling, *Int. J. Earthquake Eng. & Structural Dynamics, 16,* 1227-1231, *5 Pages,***Dec, 88**.
18. **V. W. Lee** A Note on Mapping Threshold Intensities, *Earthquake Eng. &Eng. Vibration, 9(1),* 21-34, *14 Pages, 12 Refs.,***Mar, 89**.

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19. **M.D. Trifunac&V. W. Lee** Empirical Model for Scaling Fourier Amplitude Spectra of Strong Earthquake Ground Acceleration in Terms of Earthquake Magnitude, Source to Station Distance, Site Intensity and Recording Site Conditions, *Int. J. Soil Dynamics & Earthquake Eng.,.8(3),* 110-125, *16 Pages, 15 Refs.,***July, 89 [Citations].**
20. **M.D. Trifunac& V. W. Lee** Empirical Model for Scaling Pseudo Relative Velocity Spectra of Strong Earthquake Accelerations in Terms of Magnitude, Distance, Site Intensity and Recording Site Conditions, *Int. J. Soil Dynamics & Earthquake Eng., 8(3),* 126-144, *19 Pages, 12 Refs.,***July, 89 [Citations].**
21. **V. W. Lee& H. Cao** Diffraction of SV Waves by Circular Cylindrical Canyons of Various Depths, *J. Eng. Mech., A.S.C.E., 115(9),* 2035-2056, *22 Pages, 23 Refs.,***Sep, 89 [Citations].**
22. **V. W. Lee** Empirical Scaling of Pseudo Relative Velocity Spectra of Strong Earthquake Ground Motion in terms of Magnitude, and Both Local Soil and Geological Site Classifications, *Earthquake Eng. &Eng. Vibration, 9(3),* 9-29, *21 Pages, 43 Refs.,***Sep, 89 [Citations].**
23. **V. W. Lee** Recent Developmentson Data Processing of Strong-Motion Accelerograms: Interpolation of Uniform and Non-Uniform Sampling from Digitized Data, *Int. J. Soil Dynamics & Earthquake Eng., 8(4),* 202-212, *11 Pages, 18 Refs.,***Oct, 89 [Citations].**
24. **H. Cao &V. W. Lee** Scattering of Plane SH Waves by CircularCylindrical Canyons with Variable Depth-to-Width Ratio, *European J.Earthquake Eng., III(2),* 29-37, *8 Pages, 10 Refs.,***Dec, 89 [Citations].**
25. **V. W. Lee& M.D. Trifunac** A Note on Filtering Strong-Motion Accelerograms to Produce Response Spectra of Specified Shape and Amplitude, *European J.Earthquake Eng., III(2),* 38-45, **Dec, 89 [Citations].**
26. **M.I Todorovska& V. W. Lee** Seismic Waves in Building with Shear Walls or central Core, *J. Eng. Mech., A.S.C.E., 115(12),* 2669-2686, *18 Pages, 5 Refs.,***Dec,89[Citations].**
27. **M.D. Trifunac&V. W. Lee** Frequency Dependent Attenuation of Strong Earthquake Ground Motion, Int. J. Soil Dynamics & Earthquake Eng., *9(1),* 3-15, *13 Pages, 22 Refs.,***Jan, 90[Citations].**
28. **V. W. Lee** On the Scattering of Plane SHWaves By a Semi-Parabolic Parabolic Cylindrical Canyon in an Elastic Half-Space, *Geophysical J., 100,* 79-86, *8 Pages, 19 Refs.,***Feb, 90 [Citations].**
29. **M.I. Todorovska&V. W. Lee** A Note on Responseof Shallow Circular Valleys to Rayleigh Waves: Analytical Approach, *Earthquake Eng.&Eng. Vibration, 10(1),* 21-34, *14 Pages, 14 Refs.,***Mar, 90 [Citations].**
30. **H. Cao &V. W. Lee**Scattering and Diffraction of Plane P Waves by Circular Cylindrical Canyons with Variable Depth-to-Width Ratio, *Int. J. Soil Dynamics & Earthquake Eng., 9(3),* 141-150, *10 Pages, 16 Refs.,***May, 90 [Citations].**
31. **V. W. Lee, H. Cao &I.Paskaleva** "A Note on the Attenuation of Seismic Intensity in Bulgaria and Romania", *Int. J. Soil Dynamics & Earthquake Eng., 9(3),* 151-161, *11 Pages, 31 Refs.,***May, 90 [Citations].**
32. **V. W. Lee** Surface Strains Associated with Strong Earthquake Shaking, *Proc. J.S. C.E., 422(n* I-14), 187-194, *8 Pages, 13 Refs.,***Oct, 90 [Citations].**
33. **V. W. Lee, M.D. Trifunac, M. Herak, M. Zivcic& D. Herak** M_L^{SM}Computed from Strong- Motion Accelerograms Recorded in Yugoslavia, *Int. J. Earthquake Eng. & Structural Dynamics, 19(8),* 1167-1179, *13 Pages, 26 Refs.,***Oct, 90 [Citations].**
34. **V. W. Lee** Efficient Algorithm for Computing Displacement, Velocity and Acceleration Responses of an Oscillator to Arbitrary Ground Motion, *Int. J. Soil Dynamics & Earthquake Eng., 9(6),* 288-300, *13 Pages, 18 Refs.,***Nov, 90[Citations].**
35. **V. W. Lee**Scaling PSV Spectra in terms of Site Intensity, and Both Local Soil and Geologic Site Classifications, *European J.Earthquake Eng., IV(1),* 3-12, *10 Pages, 53 Refs.,***Dec, 90 [Citations].**
36. **V. W. Lee** A Note on Computed Magnitude $M_L^{SM}$from Strong-Motion Records, *Int. J. Soil Dynamics & Earthquake Eng., 10(1),* 10-16, *7 Pages, 19 Refs.,***Jan, 91 [Citations].**
37. **V. W. Lee** Correlation of Pseudo Relative Velocity Spectra with Site Intensity, Local Soil Classification and Depth of Sediments, *Int. J. Soil Dynamics & Earthquake Eng., 10(3),* 141-151, *11 Pages, 53 Refs.,***Apr, 91[Citations].**
38. **M.I. Todorovska& V. W. Lee** Surface Motion of Shallow Circular Alluvial Valleys for Incident Plane SH Waves - A–alytical Solution, *Int. J. Soil Dynamics & Earthquake Eng., 10(4),* 192-200, *9 Pages, 30 Refs.,***May, 91[Citations].**

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39. **M.I. Todorovska& V. W. Lee** A Noteon Scattering of Rayleigh Waves by Shallow Circular Canyons: Analytical Approach, ISET J. Earthquake Technology, *28(2)*, 1-16 ,*16 Pages, 15 Refs.*,**Jun, 91 [Citations].**

40. **M.D. Trifunac, V. W. Lee, M. Zivcic& M. Manic** On the Correlation of Mercalli-Cancani-Sieberg Intensity Scale in Yugoslavia with the Peaks of Recorded Strong Earthquake Ground Motion, *European J.Earthquake Eng., V(1)*, 27-33, *7 Pages, 17 Refs.*,**91[Citations].**

41. **M.D. Trifunac&V. W. Lee** A Note on Scaling Peak Acceleration, Velocity and Displacement of Strong Earthquake Shaking by Modified Mercalli Intensity (MMI), Site Soil and Geological Conditions, *Int. J. Soil Dynamics & Earthquake Eng., 11(2)*, 101-110, *10 Pages, 25 Refs.*,**Apr, 92[Citations].**

42. **V. W. Lee& M.D. Trifunac** Frequency Dependent Attenuation of Strong Earthquake Ground Motion in Yugoslavia, *European J. Earthquake Eng., VI(1)*, 3-13, *11 Pages, 25 Refs.*,**92 [Citations].**

43. **V. W. Lee** On Strong Motion Uniform RiskFunctionals Computed from General Probability Distributions of Earthquake Recurrences, *Int. J. Soil Dynamics & Earthquake Eng., 11(6)*, 357-367, *11 Pages, 35 Refs.*,**Nov, 92[Citations].**

44. **V. W. Lee** Scaling PSV from Earthquake Magnitude, Local Soil and Geological Depth of Sediments, *A.S.C.E., J. Geotechnical Eng., 119(1)*, 108-126, *19 Pages, 53 Refs.*,**Jan, 93[Citations].**
45. **V. W. Lee& J. Karl** Diffraction of SV Waves by underground, Cicular, Cylindrical Cavities, *Int. J. Soil Dynamics & Earthquake Eng., 11(8), (*1992), 445-456, *12 Pages, 18 Refs.*,**Jun, 93[Citations].**
46. **V. W. Lee& J. Karl** Diffraction of Elastic Plane P Waves by Circular, Underground Unlined Tunnels, *European J. Earthquake Eng., VI(1)*, 29-36, *8 Pages, 15 Refs.*,**Aug, 93**.

47. **V. W. Lee& M.D. Trifunac** Empirical Scaling of Fourier Amplitude Spectra of Former Yugoslavia, *European J. Earthquake Eng., VII(2)*, 47-61,1993 *15 Pages, 28 Refs.*,**Feb, 93[Citations].**
48. **V. W. Lee& X.Y. Wu** Application of the Weighted Residual Method to Diffraction by 2-D Canyons of Arbitrary Shape, I: Incident SH Waves, *Int. J. Soil Dynamics & Earthquake Eng., 13(5)*, 1994, 355-364, *10 Pages, 17 Refs.*,**Oct, 94 [Citations].**
49. **V. W. Lee& X.Y. Wu**Application of the Weighted Residual Method to Diffraction by 2-D Canyons of Arbitrary Shape, II: Incident P, SV & Rayleigh Waves, *Int. J. Soil Dynamics & Earthquake Eng., 13(5),* 1994, 365-373, *9 Pages, 24 Refs.*,**Oct, 94 [Citations].**

50. **V. W. Lee& M.E. Manoogian** Surface Motion above an Arbitrary shape Underground Cavity for Incident SH Waves, *European J. Earthquake Eng., VII(1)*, 3-11, *9 Pages, 13 Refs.*,**Aug, 95**.

51. **V. W. Lee** Pseudo Relative Velocity Spectra in Former Yugoslavia, *European J. Earthquake Eng., VII(1)*, 12-22, *11 Pages, 36 Refs.*,**Aug, 95 [Citations].**

52. **M.I. Todorovska&V. W. Lee** A Note on Sensitivity of Uniform Probability Spectra on Modeling the Fault Geometry in Areas with a Shallow Seismogenic Zone, *European J. Earthquake Eng., VII(2)*, 14-22, **95 [Citations].**

53. **V. W. Lee, M.S. Sabban& T. Ghosh** 3-D Surface Motions of Long Semi-Circular Longitudinal Canyons I: Incident Plane P Waves, *European J. Earthquake Eng., IX(3)*, 12-22, *11 Pages, 16 Refs.*,**96.**

54. **M.E. Manoogian&V. W. Lee** Diffraction of SH-Waves by Subsurface Inclusions of Arbitrary Shape, *J. Eng. Mech., A.S.C.E., 122(2)*, 123-129, *7 Pages, 15 Refs.*,**Feb, 96 [Citations].**

55. **V. W. Lee& R. Sherif** Diffraction Around Circular Canyon in Elastic Wedge Space by Plane SH- Waves, *A.S. C.E., Eng. Mech. Div., 122(6)*, 539-544,*6 Pages, 15 Refs.*,**Jun, 96.**

56. **M.D. Trifunac&V. W. Lee** ***1*** ***2***Peak Surface Strains During Strong Earthquake Ground Motion, *Int. J. Soil Dynamics & Earthquake Eng., 15(5)*, 311-319, *9 Pages, 36 Refs.*,**Aug, 96 [Citations].**

57. **R. Sherif&V. W. Lee** Diffraction around a Circular Alluvial Valley in a Wedge-Shaped Elastic Half-Space due to Plane SH-Waves, *European J. Earthquake Eng., X(3)*, 21-28, *8 Pages, 17 Refs.*,**97[Citations].**

58. **V. W. Lee** Discussion: "Prediction of Horizontal Response Spectra in Europe"" *Int. J. Earthquake Eng. & Structural Dynamics, 26(2)*, 289-293, *5 Pages, 42 Refs.*,**Feb, 97**.

59. **M.D. Trifunac, M.I. Todorovska&V. W. Lee** ***1*** ***2***The Rinaldi Strong-MotionAccelerograms of the Northridge, California, Earthquake of 17 January, 1994, *Earthquake Spectra, 14(1)*, 225-240, *16 Pages, 16 Refs.*,**Feb, 98 [Citations].**

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60. **V. W. Lee, S. Chen & I.R. Hsu** Antiplane Diffraction from Canyon Above a Subsurface Unlined Tunnel, *J. Eng. Mech., A.S.C.E., 125(6),* 668-675, *8 Pages, 24 Refs.*,**Jun, 99**.
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61. **E. Manoogian&V. W. Lee** *1* *2*Antiplane DeformationsNearArbitrary-Shape Alluvial Valleys, *ISET J. Earthquake Technology, 36(2), 107-120, 14 Pages, 63 Refs.*,**Jun, 99**.

62. **M.D. Trifunac, V. W. Lee & M.I. Todorovska** *1* *2*Common Problems in Automatic Digitization of Strong-Motion Accelerograms, *Int. J. Soil Dynamics & Earthquake Eng., 18(7), 519-530, 12 Pages, 17 Refs.*,**Nov, 99 [Citations].**

63. **J.-W. Liang, Y. Zhang, X Gu& V. W. Lee** Surface Motion of Circular-Arc Layered Alluvial Valley for Incident Plane SH Waves, Chinese *J. Geotechnical Engineering, 22(4),* 396-401, *6 Pages, 12 Refs.*,**Jul, 00**.

64. **C.A. Davis, V. W. Lee& J.P. Bardet** Transverse Response of Underground Cavities and Pipes to Incident SV Waves, *Int. J. Earthquake Eng. & Structural Dynamics, 30(3),* 383-410, *18 Pages, 26 Refs.*,**Feb, 01 [Citations].**

65. **J.-W. Liang, L. Yan & V.W. Lee** Scattering of Plane P Waves around Circular-Arc Layered Alluvial Valleys: Analytical Solution**,** *ACTA SeismologicaSinica 14(2), 176-195, 20 Pages, 9 Refs.*,**Mar, 01.***(Chinese Translation: ACTA Seismologica Sinica23(2) 167-184)*

66. **J.-W. Liang, L. Yan & V.W. Lee** Effect of a Covering Layer in a Circular-Arc Canyon on Incident Plane SV Waves**,** *ACTA SeismologicaSinica 14(6) 660-675, 16 Pages, 9 Refs.*,**Nov, 01** DOI:10.1007/BF02718077.

67. **V. W. Lee** *1* *2*Digitization, Data Processing and Dissemination of Earthquake Strong-Motion Accelerograms, *ISET J. Earthquake Technology, 39(2),* 55-72,**Feb-Jun, 02**.
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68. **W. Lee, M.E. Monoogion& S. Chen** Antiplane Deformations Near a Surface Rigid Foundation Above a Subsurface Rigid Circular Tunnel, *Int. J. Earthquake Eng. &Eng. Vibration, 1(1,) 27-35,* **Jun, 02**.

69. **V. W. Lee** *1* *2*Empirical Scaling of Strong Earthquake Ground Motion: Part I: Attenuation and Scaling of Response Spectra, *ISET J.Earthquake Technology, 39(4), 219-254,* **Dec, 02**.

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B) Reports

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11. **T. Ghosh & V. W. Lee** Diffraction of Plane and Surface Waves by Three-dimensional Cylindrical, Sub-surfaced Cavities in an Elastic Half-Space,*Civil Engineering Thesis, Univ.* of *Southern Cal., Los Angeles,* **95**[SCLibrary: PH.D. CI '95 G427].

12. **N. Dermendjian&V. W. Lee** Soil-Structure Interaction and Diffraction of Anti-plane (SH-) Waves Around Topographies in a Wedge-Shaped Elastic Half-Space , *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **02**[SCLibrary: PH.D. CI 2002 D435].

13. **C. H. Lin,V.W. Lee&M.D.Trifunac** Wave Propagation in a Poroelastic Half-Space Saturated with Inviscid Fluid, *Civil Engineering Thesis,***CE 01-04**, *Univ.*of*SouthernCal.,Los Angeles***02**[SCLibrary: PH.D. CI 2002 L7351].

14. **H. Luo & V. W. Lee** Diffraction of SH-Waves by Surface or Sub-surface Topographies with Application to Soil-Structure Interaction on Shallow Foundations, *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **08**.

15. **A. Amornwongpaibun & V. W. Lee** Diffraction of Anti-plane (SH) Waves Around Semi-Elliptic Surface Topographies in an Eklastic Half Space, *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **11.**

16. **L. Teng & V. W. Lee** Scattering and Diffraction of Anti-Plane (SH) Elastic Waves by Parabolic Surface Topographies, *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **12.**

17. **H. Brandow & V. W. Lee** Diffraction of Anti-plane (SH) Waves Arbitrary-Shaped Surface Topographies in an Eklastic Half Space, , *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **14.**

18. **G. Zhu & V.W. Lee** Diffraction of Three-diemnsional (3D) Elastic Waves Around Hemispherical Surface Topographoes, *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **15.**

19. **W. Y. Liu & V. W. Lee** Diffraction of Elastic Waves in Layered media, *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **17.**

20. **T. Le & V. W. Lee** **The Role of Rigid Foundation Assumption in two-dimensioanl Soil-Structure Interaction (Soil-Strucutre Interaction of Flexible Foundation),** *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **17.**

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21. **Yi Wei Cai** In-Plane Soil Strucutre interasction excited by plane P/SV waves *Civil Engineering Thesis, Univ.*of*Southern Cal., Los Angeles,* **18.**

ii) Technical Reports

1. **M.D. Trifunac& V.W. Lee** "Routine Computer Data Processing of Strong-Motion Accelerograms ", *Earthquake Engineering Research Lab., EERL 73-03, California Institute 0f Technology, Pasadena, 360 pages,* **73 [Citations].**
2. **V. W. Lee & M.D. Trifunac** "Uniformly Processed Strong Earthquake Ground Accelerograms in Western U.S.A., from 1933 to 1971: Corrected Acceleration, Velocity and Displacement Curves ", *Civil Eng. Report CE 78-01, Univ. of Southern Cal., Los Angeles, 220 pages,* **78 [Citations].**
3. **V. W. Lee** "Displacements Near a Three-Dimensional Hemispherical Canyon Subjected to Incident Plane Waves ", *Civil Eng. Report CE 78-16, Univ. of Southern Cal., Los Angeles, 126 pages,* **78 [Citations].**
4. **M.D. Trifunac& V. W. Lee** "Dependence of the Fourier Amplitude Spectra of Strong-Motion Accelerograms on Depths of Sedimentary Deposits ", *Civil Eng. Report CE 78-14, Univ. of Southern Cal., Los Angeles, 39 pages,* **78 [Citations].**
5. **M.D. Trifunac& V. W. Lee** "Dependence of the PSV Spectra of Strong-Motion Accelerograms on Depth of Sedimentary Deposits ", *Civil Eng. Report CE 79-02, Univ. of Southern Cal., Los Angeles, 67 pages,* **79 [Citations].**
6. **V. W. Lee & M.D. Trifunac** "Time of Maximum Response of Single-Degree-of-Freedom Oscillator to Earthquake Excitation ",*Civil Eng. Report CE 79-14, Univ. of Southern Cal., Los Angeles, 36 pages,* **79.**
7. **M.D. Trifunac& V. W. Lee** "Automatic Digitization and Data Processing of Strong-Motion Accelerograms, Part I: Automatic Digitization ", *Civil Eng. Report CE 79-15 I Univ. of Southern Cal., Los Angeles, 259 pages,* **79 [Citations].**
8. **V. W. Lee & M.D. Trifunac** "Automatic Digitization and Data Processing of Strong-Motion Accelerograms , Part II: Computer Processing of Accelerograms ", *Civil Eng. Report CE 79-15 II Univ. of Southern Cal., Los Angeles, 120 pages,* **79 [Citations].**
9. **V. W. Lee & M.D. Trifunac** "EQINFOS (The Strong-Motion Earthquake Data Information System) ", *Civil Eng. Report CE 82-01, Univ. of Southern Cal., Los Angeles, 54 pages,* **82 [Citations].**
10. **V. W. Lee & M.D. Trifunac** "Current Developments in Data Processing of Strong-Motion Accelerograms ", *Civil Eng. Report CE 84-01, Univ. of Southern Cal., Los Angeles, 99 pages,* **84 [Citations].**
11. **V. W. Lee & M.D. Trifunac** "Attenuation of Modified Mercalli Intensity for Small Epicentral Distances in California ", *Civil Eng. Report CE 85-01, Univ. of Southern Cal., Los Angeles, 21 pages,* **85 [Citations].**
12. **M.D. Trifunac& V. W. Lee** "Frequency Dependent Attenuation of Strong Earthquake Ground Motion " *Civil Eng. Report CE 85-02, Univ. of Southern Cal., Los Angeles, 70 pages,* **85 [Citations].**
13. **M.D. Trifunac& V. W. Lee** "Preliminary Empirical Model for Scaling Fourier Amplitude Spectra of Strong Ground Acceleration in Terms of Earthquake Magnitude, Source to Station Distance, Site Intensity and Recording Site Conditions ", *Civil Eng. Report CE 85-03, Univ. of Southern Cal., Los Angeles,* **85[Citations].**
14. **M.D. Trifunac& V. W. Lee** "Preliminary Empirical Model for Scaling Pseudo Relative Velocity Spectra of Strong Earthquake Acceleration in Terms of Earthquake Magnitude, Source to Station Distance, Site Back to TopIntensity and Recording Site Conditions ", *Civil Eng. Report CE 85-04, Univ. of Southern Cal., Los Angeles, 151 pages,* **85 [Citations]**
15. **V. W. Lee & M.D. Trifunac** "Uniform Risk Spectra of Strong Earthquake Ground Motion ", *Civil Eng. Report CE 85-05, Univ. of Southern Cal., Los Angeles, 122 pages,* **85 [Citations].**
16. **V. W. Lee &M.D.Trifunac** "Strong Earthquake Ground Motion Data in EQINFOS: Part I ", *Civil Eng. Report CE 87-01, Univ. of Southern Cal., Los Angeles, 399 pages,* **87 [Citations].**

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17. **V. W. Lee & M.D. Trifunac** "Microzonation of a Metropolitan Area ", *Civil Eng. Report CE 87-02, Univ. of Southern Cal., Los Angeles, 143pages,* **87 [Citations].**

18. **L.R. Jordanovski V. W. Lee, M.I. Manic, T. Olumceva, C. Sinadinovski, M.I. Todorovska& M.D. Trifunac** "Strong Earthquake Ground Motion Data in EQINFOS: Yugoslavia, Part I ", *Civil Eng. Report CE 87-05, Inst. for Earthquake Eng. and Eng. Seismology,* **Uni.[Citations].**

19. **M.D. Trifunac& V. W. Lee** "Direct Empirical Scaling of Response Spectral Amplitudes for Various Site and Earthquake Parameters ", *U.S. Nuclear Regulatory Commission, Report NUREG/CR- 4903,* **87 [Citations].**

20. **M.D. Trifunac, J.G. Anderson & V. W. Lee** "Methods for Introduction of Geological Data into Characterization of Active Faults and Seismicity and Upgrading of Uniform Risk Spectrum Technique ", *U.S. Nuclear Regulatory Commission, Report NUREG/CR-4903,* **87 [Citations].**

21. **V. W. Lee** "Influence of Local Soil and Geologic Site Conditions on Pseudo Relative Velocity Spectra of Recorded Strong-Motion Accelerograms ", *Civil Eng. Report CE 87-06, Univ. of Southern Cal., Los Angeles, 273pages,* **87 [Citations].**

22. **M.D. Trifunac& V. W. Lee, H. Cao & M.I. Todorovska** "Attenuation of Seismic Intensity Scales in Balkan Countries ", *Civil Eng. Report CE 88-01, Univ. of Southern Cal., Los Angeles, 53 pages,* **88 [Citations].**

23. **D. Nenov, G. Georgiev, L Paskaleva, V. W. Lee & M.D. Trifunac** "Strong Earthquake Ground Motion Data in EQINFOS: Accelerograms Recorded in Bulgaria Between 1981 And 1987 ", *Civil Engineering Joint Report No. CE 90-02, BulgarianAcademy of Sciences,* **90 [Citations].**

24. **V. W. Lee & M.D. Trifunac** "Automatic Digitization and Data Processing of Accelerograms Using PC ", *Civil Eng. Report CE 90-03, Univ. of Southern Cal., Los Angeles, 150 pages* **90 [Citations].**

25. **M.D. Trifunac, M.I. Todorovska& V. W. Lee, Editor for: LD. Gupta, V, Rambabu& R.G. Joshi,** "Strong Earthquake Ground Motion Data in EQINFOS for India: Part IA ", *Civil Eng. Report CE 93-03, Univ. of Southern Cal., Los Angeles, 60 pages* **93 [Citations].**

26. **A.R. Chandrasekaran& J.D. Das, M.D. Trifunac, M.I. Todorovska& V. W. Lee** "Strong Earthquake Ground Motion Data in EQINFOS for India: Part IB ", *Civil Eng. Report CE 93-04, Univ. of Southern Cal., Los Angeles, 90 pages* **93 [Citations].**

27. **V. W. Lee & M.D. Trifunac**"Characteristics of Earthquake Response Spectra in Southern California", *Southern California Earthquake Center Report: First Year Technical Report, Univ. of Southern Cal., Los Angeles, 96 pages* **May, 93.**

28. **M.D. Trifunac& V. W. Lee** "Duration of Strong Motion Shaking in Southern California", *Southern California Earthquake Center Report: First Year Technical Report, Univ. of Southern Cal., Los Angeles, 265 pages* **May, 93.**

29. **V. W. Lee & M.D. Trifunac**"Characteristics of Earthquake Response Spectra in Southern California", *Southern California Earthquake Center Report: Second Year Technical Report, Univ. of Southern Cal., Los Angeles, 89 pages* **Jul, 94.**

30. **M.D. Trifunac& V. W. Lee** "Duration of Strong Motion Shaking in Southern California", *Southern California Earthquake Center Report: Second Year Technical Report, Univ. of Southern Cal., Los Angeles, 109 pages* **Jul, 94.**

31. **V. W. Lee, M.D. Trifunac, M.I. Todorovska& E.I. Novikova** "Empirical Equations Describing Attenuation of the Peaks of Strong Ground Motion, in terms of Magnitude, Distance, Path Effects and Site Conditions ", *Civil Eng. Report CE 95-02, Univ. of Southern Cal., Los Angeles,* **95 [Citations].**

32. **V. W. Lee & M.D. Trifunac** "Frequency Dependent Attenuation Function and Fourier Amplitude Spectra of Strong Earthquake Ground Motion in California ", *Civil Eng. Report CE 95-03, Univ. of Southern Cal., Los Angeles,* **95 [Citations].**

33. **V. W. Lee & M.D. Trifunac** "Pseudo Relative Velocity Spectra of Strong Earthquake Ground Motion in California ", *Civil Eng. Report CE 95-04, Univ. of Southern Cal., Los Angeles,* **95 [Citations].**

34. **V. W. Lee, M.D. Trifunac, M.I. Todorovska& E.I. Novikova** Empirical Equations Describing Attenuation of Horizontal Peaks of Strong Ground Motion in Terms of Magnitude,Distance,Path Effects and Site Conditions, "Characteristics of Earthquake Ground Motions for Seismic Design", *Southern California Earthquake Center Report" Task H-1: Final Task Report, Vol. I:,* **Dec, 95.**

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35. **V. W. Lee & M.D. Trifunac** Frequency Dependent Attenuation Functions and Fourier Amplitude Spectra of Horizontal Strong Earthquake Ground Motion in California, "Characteristics of Earthquake Ground Motions for Seismic Design", *Southern CaliforniaEarthquakeCenter Report" Task H-1: Final Task Report, Vol. II:,* **Dec, 95.**

36. **V. W. Lee & M.D. Trifunac** Pseudo Relative Velocity Spectra of Horizontal Strong Earthquake Ground Motion in California, "Characteristics of Earthquake Ground Motions for Seismic Design", *Southern California Earthquake Center Report" Task H-1: Final Task Report, Vol. III:,* **Dec, 95.**

37. **M.I. Todorovska, LD. Gupta, V.K. Gupta, V.W. Lee & M.D. Trifunac** "Selected Topics in Probabilistic Seismic Hazard Assessment ", *Civil Eng. Report CE 95-08, Univ. of Southern Cal., Los Angeles,* **Dec, 95 [Citations].**

38. **M.I. Todorovska, V. W. Lee & M.D. Trifunac, C.D. Stephens, R.A. Folgeman, C. Davis and R. Tognazzin** "The ML=6.4 Northridge, California Earthquake and Five M > 5 Aftershocks between 17 Jan and 20 Mar, 1994-Summary of Processed Strong-Motion Data", , *Civil Eng. Report* **CE 99-01**, *Univ. of Southern Cal., Los Angeles,* **99**.

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39. **C.-H. Lin, V. W. Lee & M.D. Trifunac** "On the Reflection of Elastic Waves in a Poro-Elastic Half-Space Saturated with Non-viscous Fluid ", *Civil Eng. Report CE 01-04, Univ. of Southern Cal., Los Angeles, 114 pages* **Sep, 01.**

40. **M.D. Trifunac& V.W. Lee** "A Note on the Relative Ranking of Twelve Faculty in Civil Engineering Department at USC – Experiments with Science Citation Index Expanded", *Civil Eng. Report CE 04-03, Univ. of Southern Cal., Los Angeles,* **Sep, 04.**

iii) Pending (None)

C) Invited Talks, Courses, Lectures, Conferences or Workshops

1. **V. W. Lee** On the Instrument Correction of RDZ-I Strong-Motion Pendulum Galvanometer in China., *Inst.* of *Earthquake Eng., China Academy* of *Building Science,* **Beijing, China**, **Jun-Jul, 83**.
2. **V. W. Lee** Digitization and Data Processing of Strong-Motion Accelerograms Records in U.S.A., and its application to Earthquake Recordings in China, *Inst. of Earthquake Eng., China Academy* of *Building Science***, Beijing, China, Jul, 83**.
3. **V. W. Lee** The Strong-Motion Earthquake Data Processing Panel Discussions, with J.G. Anderson, A.G. Brady, C.B. Crouse, A.F. Shakal,, *Proceedings* of *the Golden Anniversary Workshop on Strong Motion Seismology, Mar* 30-31, 83, *Univ.* of Southern Cal., **Los Angeles, 83.**
4. **V. W. Lee** The Earthquake Data Information System (*EQINFOS*), *EERI Seminar on Earthquake Records and Design, Seminar Report F1-F6,* **Pasadena, California, *Feb* 9, 84**.
5. **V. W. Lee** Data Processing using minicomputers in Earthquake Engineering,*EERI Seminar on Minicomputers & Microprocessors in Earthquake Eng., Jul. 17-18,* **Stanford University**, **84**.
6. **V. W. Lee** Strong Ground Motion Studies for Earthquake Engineering Design Applications, *Symposium on Earthquake Hazard Reduction research, Apr* 18, *Univ.*of*SouthernCal.,***Los Angeles,85**.
7. **V. W. Lee** Generation of Artificial Translational and Rocking Accelerograms, *Central Lab. for Seismic Mechanics & Earthquake Eng., July,* **Bulgarian Academy of Science,85**.
8. **V. W. Lee** Digitization and Data Processing of Strong-Motion Accelerograms, *Central Lab. for Seismic Mechanics & Earthquake Eng., July,* **Bulgarian Academy of Science, 85.**
9. **V. W. Lee** Recent Developments on Data Processing of Strong-Motion Accelerograms**,** Earthquake Engineering in U.S.A., *Central Lab. for Seismic Mechanics & Earthquake Eng., August,* **Bulgarian Academy of Science,87**.
10. **V. W. Lee** Microzonation of a Metropolitan Area in USA: Application to Seismic Risk, *Central Lab. for Seismic Mechanics & Earthquake Eng., August,* **BulgarianAcademy of Science,87**.
11. **V. W. Lee** Diffraction of Elastic Waves by Surface and Subsurface Irregularities, *presented at Civil Engineering Dept., Nov.* 21, **California Institute of Technology,89**.
12. **V. W. Lee** History of Digitization, Data Processing Retrieval and Dissemination of Strong-Motion Accelerograms*Workshop on Los Angeles Strong-Motion Array, Oct 12-13, Univ. of Southern Cal.,***Los Angeles, 90.**

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13. **M.D. Trifunac, V. W. Lee, M. Zivcic& M. Manic** A Note on Correlations between Peaks of Recorded Strong Ground Motion in Yugoslavia and the MCS Intensity Scale, *Proc. of Yugoslav Earthquake Conference*, **Belgrade, Yugoslavia,Dec, 90**.
14. **V. W. Lee** History and Recent Advances of Data Processing of Strong-Motion Accelerograms in U.S.A. *Institute of Earth Science, Academic Sinica*, **Taiwan, R.O.C. 25, Jun 92**.
15. **V. W. Lee** Automatic Digitization of Earthquake Strong-Motion Accelerograms Programs, *Civil Engineering Dept., University of Roorkee*, **Roorkee, U.P., India 18-24, Dec 93**.
16. **V. W. Lee** Microzonation of a Metropolitan Area in USA: Application to Seismic Risk, *Indian Society of Earthquake Technology*,**Roorkee, U.P., India Dec 23, 93**.
17. **V. W. Lee** Frequency Dependent Attenuation of Strong Motion Amplitudes, *SouthernCaliforniaEarthquakeCenter, Workshop on Attenuation Relations for Probabilistic Seismic Hazard Analyses in Southern **Cali**fornia*, **Feb 17-18, 94**.
18. **V. W. Lee & M. Manic** Empirical Scaling of Response Spectra in Former Yugoslavia, *Special Session* # 1: *Source Mechanism, 10th European Conference on Earthquake Engineering, Aug* 28- *Sep* 2, *Conf. Proc. Vol. IV;* 2567-2572, **Vienna, Austria**, **94**.
19. **V. W. Lee** Automatic Digitization & Data Processing of Strong-Motion Accelerograms: State-of- the-Art Review, *Int. Conference on Structural Dynamics, Vibration, Noise & Control, SDVNC'95" Hong KongPolyTechnicUniversity*, **Hong Kong**, *Dec* 5-7 **1995**.
20. **V. W. Lee** Generation of Synthetic Time Histories of Ground Motion, *Short Course on Seismic Risk in India, Dec* 12-14, **New Delhi, India**, **95**.
21. **V. W. Lee** Lectures on Wave Diffraction in Elastic Half Space by Surface and Subsurface Topographies *Short Course on Wave Propagation in Elastic Solids*, Aug –Oct, Tianjin University, **Tianjin, China,02.**
22. **V. W. Lee** Regression of Earthquake Strong-Motion Parameters, Application to Seismic Risk and Microzonation, Tianjin University, **Tianjin, China**, **Oct 30, 02.**
23. **M.I. Todorovska& V.W. Lee** Strong-Motion Data Processing and Recording at University of Southern California, *Proc. Invited Workshop on Strong-Motion Record Processing, Consortium of Organizations for Strong-Motion Observation Systems (COSMOS), May 26-27*,**Richmond California, 04.**
24. **M.I. Todorovska, M.D. Trifunac& V.W. Lee** Probablistic Assessment of Permanent Ground Dsiplacement across Earthquake Faults, *EE-21C Proceedings of Earthquake Engineering in the 21st Century* **,** International Conference on Earthquake Engineering to mark 40 (1965-2005) Years of IZIIS, http://www.iziis.edu.mk/EE-21C**Skopje - Ohrid,** *Aug 27-Sep 1,* **05.**
25. **V.W. Lee** Advances in Wave propagation of Waves in Elastic Half-Space, School of Civil Engineering, Jul 31-Aug 6, TianjinUniversity, **Tianjin, China,06.**
26. **M.I. Todorovska, M.D. Trifunac & V.W. Lee** Probabilistic Assessment of Permanent Ground Displacement across Earthquake Faults, *Proc. Earthquake Engineering in the 21st Century to mark 40th anniversary of IZIIS - Skopje, August 28-Sptember 1, 2005, Skopje and Ohrid, Macedonia, (2005).*
27. **V. W. Lee& JW. Liang** Free-Field Half-Space Zero-Stress or Related Boundary Conditions on Elastic and PoroElastic Fluid Saturated Medium, School of Civil Engineering, Oct 18, Tianjin University, **Tianjin, China,08.**
28. **V. W. Lee& JW. Liang** Rotational Components of Elastic Waves on the Half- Space Surface, School of Civil Engineering, Oct 18, Tianjin University, **Tianjin, China,08.**
29. ***V.W. Lee, M.D. Trifunac,M. HerakandD. Herak*** Uniform Hazard Earthquake Acceleration Spectra in Kraljevo – contributions from local seismicity *5th Scientific and Engineering Conference, Serbian Scientific Journal "Izgradnja", Turist Hotel, Kraljevo, Serbia,* **Jun 2-3,2011.**
30. ***V.W. Lee, M.D. Trifunac,M. HerakandD. Herak*** Minimum Radius of Seismic Activity for Earthquake Hazard Analyses *5th Scientific and Engineering Conference, Serbian Scientific Journal "Izgradnja", Turist Hotel, Kraljevo, Serbia,* **Jun 2-3,2011.**
31. ***V.W. Lee, M.D. Trifunac*** Synthetic *Translational* Motions of Surface and Body Waves On or Below Elastic Layered Media over Half-Space,*Meeting Presentation at Canadian Nuclear Safety Commission, Ottawa, Canada*,**May 28-30, 2014.**
32. ***V.W. Lee, M.D. Trifunac*** Synthetic *Rotational* Motions of Surface and Body Waves On or Below Elastic Layered Media over Half-Space, *Meeting Presentation at Canadian Nuclear Safety Commission, Ottawa, Canada*,**May 28-30, 2014.**
33. ***V.W. Lee*** Scattering and Diffraction of Earthquake Motions in Irregular Elastic Layers, I: *Love and Body SH Waves,Meeting Presentation at Canadian Nuclear Safety Commission, Ottawa, Canada*,**May 28-30, 2014.**
34. ***V.W. Lee*** Scattering and Diffraction of Earthquake Motions in Irregular Elastic Layers, II: *Rayleigh and Body P, SVWaves, Meeting Presentation at Canadian Nuclear Safety Commission, Ottawa, Canada*,**May 28-30, 2014.**

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35. **V.W. Lee** Regression of Strong Earthquake Ground Motions in Yugoslavia in the 1990s. *Lecture 2 presented at 'Definisanje projektnog Seismičkog opterećenjs Za Srbiju – Istraživanja I Primeri* – presented by V. W. Lee, Belgrdae, Aug 5, 2016.
36. ***V.W. Lee, M. D. Trifunac, B. Bulajić and M. Manić*** Preliminary empirical scaling of Pseudo Relative Velocity Spectra in Serbia from the Vrancea Earthquakes, . *Lecture 4 presented at 'Definisanje projektnog Seismičkog opterećenjs Za Srbiju – Istraživanja I Primeri* – presented by V. W. Lee, Belgrdae, Aug 5, 2016.
37. ***V.W. Lee and M. D. Trifunac*** Seismic Hazard Map in Serbia, *Lecture 6 presented at 'Definisanje projektnog Seismičkog opterećenjs Za Srbiju – Istraživanja I Primeri* – presented by M. D. Trifunac, Belgrdae, Aug 5, 2016.
38. ***V.W. Lee, M. D. Trifunac, B. Bulajić, M. Manić, D. Herak and M. Herak*** Seismic Microzoning of Kraljevo, . *Lecture 8 presented at 'Definisanje projektnog Seismičkog opterećenjs Za Srbiju – Istraživanja I Primeri* – presented by M, Manic, Belgrdae, Aug 5, 2016.
39. ***V.W. Lee, M. D. Trifunac, B. Bulajić, M. Manić, D. Herak and M. Herak*** Seismic Microzoning of Belgrade, *Lecture 9 presented at 'Definisanje projektnog Seismičkog opterećenjs Za Srbiju – Istraživanja I Primeri* – presented by B. Bulajic, Belgrdae, Aug 5, 2016.
40. ***V.W. Lee*** Lectures in Earthquake Engineering, morning 9-11am, Lectures 1-3, 1: History of Seismic Data Processing, 2: Regression of Eathquake Strong-motion Parameters, 3: Historical reviews of 3 Groups of Regression Methods; Afternoon 1-3pm, Lecures 4-6, 4: Seismic Risks, Uniform Hazard and Microzonation Maps, 5: Synthetic Accelerograms, 6: Diffraction of Seismic Waves in Irregular Elastic Layers, with Prof. Zhenning Ba and Jianwen Liang, Tianjin University, Tianjin, China, April 17 2017.
41. ***V.W. Lee*** Lectures in Earthquake Engineering, College of Civil Engineering, JiaTong University, with Prof. Weihua Li, Beijin China, 9-11:30am April 24, 2017.
42. ***V.W. Lee*** Lectures in Earthquake Engineering, College of Civil Engineering, Beijing University of Technology, with Prof. Li Liang, Beijin China, 3-5pm April 24, 2017.
43. ***V.W. Lee*** Lectures in Earthquake Engineering, Department of Urban Rail Transit, Nanjing Technical University, with Prof. Haiyang Zhuang, Nanjing China, April 27, 2017.
44. ***V.W. Lee*** Lectures in Earthquake Engineering, College of Civil Engineering and Transportation, Nanjing Hohai University, with Prof. Yufeng Gao and Ning Zhang, Nanjing China, April 28, 2017.
45. ***V.W. Lee*** Lectures in Earthquake Engineering, College of Civil Engineering, Suzhou University, Suzhou China, with Prof. Haiping Ding, May 2, 2017.
46. ***V.W. Lee*** Lectures in Earthquake Engineering, College of Civil Engineering, Hunan University, Chamgsha, China, with Prof. Qijian Liu, May 4, 2017.
47. ***V.W. Lee*** Seismic Risk, Uniform Spectra and Microzonation Maps,, Invited keynote speaker KS9, 16th Symposium on Earthquake Engineering (16SEE 2018) University of Roorkee, Roorkee, Inida, Dec 20-21, 2018.

D) Conferences, Seminars & Abstracts

1. **V. W. Lee & M.D. Trifunac** On the Accuracy of Computed Ground Displacements from Strong- Motion Accelerograms , *Seismological Society of America Annual Meeting, , May*, Las Vegas, **73**.
2. **K. Hill, V. W. Lee & F.E. Udwadia** Nonlinear Soil Identification, *6th World Conference on Earthquake Engineering*, New Delhi, India, **76**.
3. **V. W. Lee** On Deformations Near Circular Underground Cavity Subjected to Incident Plane SH Waves, *Symposium of Applications of Computer Methods in Engineering, Aug* 23-26, 951- 961, *Univ. of Southern California., Los Angeles, U.S.A.,*, **77 [Citations].**
4. **V. W.** Lee Effect of Foundation Embedment on Soil-Structure Interaction, 7*th World Conference on Earthquake Engineering*, 4 *pages*, Ankara, Turkey, **80**.
5. **V. W. Lee** Time of Maximum Response of One-Degree-of-Freedom Oscillator to Earthquake Excitation, *7th World Conference on Earthquake Engineering*, 4 *pages*, Ankara, Turkey, **80**.
6. **V. W. Lee** A Computer Program for Data Processing of Strong-Motion Earthquake Data with Determination of Noise-Free Frequency Band, *Earthquake Notes, Vol.52, No. 1*, **81 [Citations].**
7. **V. W. Lee** Recent Developments in Data Processing of Strong-Motion Accelerograms, 8*th World Conference on Earthquake Engineering, Vol. II* 119-126, San Francisco, **84 [Citations].**
8. **H. Cao &V. W. Lee** Scattering and Diffraction of Plane SH-Waves by Cylindrical Canyons with Variable Depth-to-Width Ratio, *Seismological Society of America Annual Meeting, May* 24-27, University of Hawaii, Honolulu, Hawaii, U.S.A., **88**.

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9. **M.I. Todorovska, V. W. Lee & M.D. Trifunac** Attenuation of Strong Motion Amplitudes with Distance during the Whittier-Narrows, California, Earthquake of 1987, *Seismological Society of America Annual Meeting, Apr* 19-21, Victoria, British Columbia, Canada, **89**.
10. **M.I. Todorovska, V. W. Lee** Surface Motion of Shallow Circular Cylindrical Valleys for Incident plane SH-Waves: Analytical Solutions, *Seismological Society of America Annual Meeting, Apr* 19-21, Victoria, British Columbia, Canada, **89**.
11. **V. W. Lee** Scattering and Diffraction of Elastic Waves by a Three-Dimensional Underground Cavity, *Seismological Society of America Annual Meeting, Apr* 19-21, Victoria, British Columbia, Canada, **89**.
12. **V. W. Lee** Automatic Digitization & Data Processing of Earthquake Accelerograms on PC, *Seismological Society of America Annual Meeting, May* 1-4, Santa Cruz, California, **90**.
13. **V. W. Lee** Surface Strains Associated with StrongEarthquake Shaking, *Appl. Mech. Reviews* (*AMR), A.S.M.E., Vol.44, no.5, abstract* 1283, **May, 91**.
14. **V. W. Lee** Automatic Digitization & Data Processing of Strong-Motion Accelerograms Motion Accelerograms: State-of-the- Art Review, *10th European Conference on Earthquake Engineering, Aug* 28- *Sep* 2, *Conf. Proc. Vol. I,* 183-188, Vienna, Austria, **94 [Citations].**
15. **M.E. Manoogian&V. W. Lee**Scattering of SH-Waves by Arbitrary Surface Topography, *3rd Int. Conference on Recent Advances in Geotechnical Earthquake Engineering & Soil Dynamics, Univ. of Missouri- Rolla, Conf. Report Vol. II;* 665-670, *Apr* 2-9, St. Louis, Missouri, **95**.
16. **M.E. Manoogian&V. W. Lee**Reviewof Methods to Calculate Displacements near Surface and Sub-surface Irregular Topography in an Elastic Half-Space, 11*th World Conference on Earthquake Engineering,* Acapulco, MEXICO, **Jun 23-28,96**.
17. **L.R. Hsu, S. Chen &V. W. Lee**Diffraction of Plane SH Waves around a Circular Surface Canyon Above an Underground Unlined Tunnel, *12th A.S.C.E. Engineering Mechanics Conf., San Diego Marriott, La Jolla, California, **May*** **17-20,98**.
18. **V. W. Lee, S. Chen & M.E. Manoogian**Deformations Near Surface and Sub-Surface (Foundations Above Subway) Topographies, *First China- USA-Japan Workshop on Civil Infrastructure Systems, Shanghai, China, **Nov*** **4-6, 98**.
19. **V. W. Lee& S. Chen** Deformations Near Rigid Foundations Above an Underground Tunnel, *13th A.S. C.E. Engineering Mechanics Conf., John Hopkins Univ., Baltimore, Maryland, **Jun*** **20-23,99**.
20. **T.K.**
21. **&V. W. Lee**Scattering and Diffraction of Rayleigh Surface Waves by an Infinitely Long Underground 3-D Cavity, *13th A.S.C.E. Engineering Mechanics Conf., Johns Hopkins Univ., Baltimore, Maryland, **Jun*** **20-23,99**.
22. **N. Dermendjian, V. W. Lee & J-W. Liang**Anti-plane Deformations Near an Arbitrary-Shaped Rigid Foundation in a Wedge-Shaped Elastic Half-Space , *15th A.S.C.E. Engineering Mechanics Conf., Univ. of California, San Diego, **Jun*** **27-29,01**.
23. **V. W. Lee** Automatic Digitization & Data Processingof Earthquake Strong-motion Accelerograms in 2002 International Conference on Advances & National Challenges in Earthquake Engineering Research (ICANCEER), Institute of Engineering Mechanics, Harbin, China, **Aug14-16, 02.**
24. **V. W. Lee** Automatic Digitization & Data Processing of Earthquake Strong-motion Accelerograms in 2002 International Conference on Advances & National Challenges in Earthquake Engineering Research (ICANCEER), Hong KongPolytechnicUniversity, Hong Kong, **Aug19-20, 02.**
25. **N. Dermendjian& V.W. Lee** Anti-plane Soil-Structure Interaction on a Circular Rigid Foundation in an Elastic Wedge-Shape Half-Space, ASME Mechanics & Materials Conference, Arizona State University, Camelback Inn resort, Scottsdale, Arizona, **Jun 17-20, 03.**
26. **V. W. Lee & JW. Liang** Free-Field Half-Space Zero-Stress or Related Boundary Conditions on Elastic and PoroElastic Fluid Saturated Medium, 14*th World Conference on Earthquake Engineering (14WCEE), Beijing, China,***Oct 13-17, 08.**
27. **V. W. Lee & JW. Liang** Rotational Components of Elastic Waves on the Half- Space Surface, 14*th World Conference on Earthquake Engineering (14WCEE), Beijing, China,***Oct 13-17, 08.**
28. **JW. Liang, Z. Liu & V. W. Lee** Scattering of Plane Waves by a 3D Canyon in a Layered Half-Space, 14*th World Conference on Earthquake Engineering (14WCEE), Beijing, China,***Oct 13-17, 08.**
29. **JW. Liang, Z. Ba& V. W. Lee** Surface Motion of a 3-D Alluvial Valley in a Layered Half-Space for Incident Plane Waves, 14*th World Conference on Earthquake Engineering (14WCEE), Beijing, China,***Oct 13-17, 2008.**
30. **M.I. Todorovska, M.D. Trifunac& V.W. Lee** Physics based generation of multi-component synthetic ground motion time histories at closely spaced distances, 15*th World Conference on Earthquake Engineering (15WCEE), Lisbon, Portugal,* **Sep 24-28, 2012**,
31. **M.I. Todorovska, M.D. Trifunac& V.W. Lee** Synthetic Earthquake Ground Motions for the Design of Long Structures, Proc. 6*th China-Japan-United States Trilateral Symposium on Lifeline Earthquake Engineering Chengdu, China,* **May 28- Jun 1, 2013**.

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32. **M.I. Todorovska, M.D. Trifunac, V.W. Lee & Nebojsa Orbovic** Synthetic Earthquake Ground Motions at Closely Spaced Distances with SYNACC, Transactiona SMIRT-22 (22nd Int. Conf. on Strucutural Mechnics in Reactor Technology), San Francisco, California, **Auguest, 2013**.

33.

III) Research Experience A) PhD Students…B) Research Topics

A) PhD Students of Professor Vincent W. Lee:

i) Graduated PhDs:

1,	L.R. Jordanovski *(PhD, 1986)*	**Professor**	Faculty of Natural Science & Math., St. Cyril &Metodius University, Skopje, Republic of Macedonia
Director *of Seismological Observatory, Skopje,*, *Former* ***Prime Minister*** *of Republic of Macedonia, 2003-04, 02-06: Speaker of the House of Parliaments*			
Thesis: Investigation of Numerical Methods in Inversion of Earthquake Source,*Civil Eng. Report* **CE 86-01**, *Univ.* of *Southern Cal., Los Angeles,* 259 *pages, 96 Refs.,***86**[SCLibrary: PH.D. CI '85 J82]**.**			

2,	M.I. Todorovska *(PhD, 1988)*	**Research Professor**	*Civil & Environmental Engineering, University of Southern California, Los Angeles, California, U.S.A*
Thesis: Investigation of Earthquake Response of Long Buildings, *Civil Eng. Report* **CE 88-02**, *U.S.C., Los Angeles,* 177 *pages, 22 Refs.,***88**[SCLibrary: PH.D. CI '88 T639].			

3,	S. B. Kojic *(PhD, 1988)*	**Research Professor**	*Civil & Environmental Engineering, University of Southern California, Los Angeles, California, U.S.A*
Thesis: Earthquake Response of Arch Dam to non-uniform Canyon Motion, *Civil Eng. Report* **CE 88-03**, *U.S.C., Los Angele*].			

4,	**H. Cao** *(PhD, 1991)*	**Engineering CEO**	*TriTech Engineering Assocaites, Inc.San Gabriel, California, 91775 U.S.A*
Thesis: Scattering and Diffraction of Incident Plane SH, P and SV Waves by Circular Canyons with Variable Depth-to-Width Ratios, *Civil Eng. These, U.S.C.., Los Angeles,* 308 *pages***, 91**[SCLibrary: PH.D. CI '90 C235].			

5,	**J. Karl** *(PhD, 1991)*	**Engineering Consultant**	*Seattle, Washington, U.S.A.*
Thesis: Scattering and Diffraction of Elastic Waves by an Underground, Circular Cylindrical Unlined Tunnel (Cavity), *Civil Eng.Thesis, U.S.C., Los Angeles,* 298 *pages,* **91**[SCLibrary: PH.D. CI '91 K18].			

6.	**M.S. Sabban** *(PhD, 1991)*	**Professor**	Civil Engineering ***Umm Al-QaraUniversity***Makkah, Saudi Arabia
Thesis: Scattering and Diffraction of Elastic Waves by Three-Dimensional Semi- Circular Cylindrical Surface Canyons, *Civil Eng. Thesis, U.S.C., Los Angeles,* 247 *pages,* **91** [SCLibrary: PH.D. CI '91 S114].			

7.	**M.E. Manoogian** *(PhD, 1992)*	**(Former) Chairman, Professor**	Civil Engineering & Environmental Science Frank R. Seaver College of Science & Engineering, Loyola Marymount UniversityLos Angeles, California, USA

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Thesis: Diffraction of SH Waves by Surface and Sub-Surface Topographies of Arbitrary Shape, *Civil Engineering Thesis, U.S.C., Los Angeles,* **92**[SCLibrary: PH.D. CI '92 M285]**.**

8.	**X.Y. Wu** *(PhD, 1992)*	**Consulting Engineer**	*IDC Consulting Engineers, Inc* *www.idcconsultant.com**Anaheim, CA 92805**.*
Thesis: ***Earthquake Response of Earth Dam to Nonuniform Canyon Motion***, *Civil Eng.**Report***CE 92-01**, *U.S.C., Los Angeles,* **92**[SCLibrary: PH.D. CI '92 W959].			

9.	**R. Sherif** *(PhD, 1993)*	**Mathematics Faculty**	Whatcom Community College, Bellingham, Washington,U.S.A.**.**
Thesis: Diffraction of SH Waves by Circular Cylindrical Topographies in a Wedge- Shaped Elastic Half-Space, *Civil Engineering Thesis, U.S.C., Los Angeles,* **93**[SCLibrary: PH.D. CI '93 S552].			

10.	**T. Ghosh** *(PhD, 1995)*	**Engineer**	Rocketdyne DiBoeing Corporation, Califonria, U.S.A**.** vision, Los Angeles
Thesis: Diffraction of Plane and Surface Waves by Three-dimensional Cylindrical, Sub-surfaced Cavities in an Elastic Half-Space**,***Civil Engineering Thesis, U.S.C., Los Angeles,* **95**[SCLibrary: PH.D. CI '95 G427].			

11.	**N. Dermendjian** *(PhD, 2002)*	**Chairman, Professor**	***Civil Engineering & Applied Mechanics***, CalStateUniveristy at Northridge, Northridge, California, U.S.A
Thesis: Soil-Structure Interaction and Diffraction of Anti-plane (SH-) Waves Around Topographies in a Wedge-Shaped Elastic Half-Space , *Civil Engineering Thesis, U.S.C., Los Angeles,* **02[**SCLibrary: PH.D. CI 2002 D435].			

12.	**C-H Lin** *(PhD, 2002)*	**Engineer**	GeotechnicalGeoSys Environmental & Geotechnical Services Group, Inc., Glendale, California, U.S.A.
Thesis: Wave Propagation in a Poroelastic Half-Space Saturated with Inviscid Fluid, *Civil Engineering Thesis,* **CE 01-04**, *U.S.C., Los Angeles, submitted* **02**[SCLibrary: PH.D. CI 2002 L7351].			

13.	**HaoLuo (Harry)** *(PhD, 2008)*	**Engineer**	HNTB (2009)www.hntb.com WSP Cantor Seinuk Structural Engineering, Los Angeles Division (08-09)
Thesis: Diffraction of SH-Waves by Surface or Sub-surface Topographies with Application to Soil-Structure Interaction on Shallow Foundations, *Civil Engineering Thesis, U.S.C.., Los Angeles, submitted* **08**.			

14.	**AlongkornAmornwongpaibun** *(PhD, 2011)*	**Professional Engineer**	Civil/Structural Engineer at Arup Group Ltd
Thesis: Diffraction of Anti-plane (SH) Waves Around Semi-Elliptic Surface Topographies in an Eklastic Half Space			

15	**L. Teng** *(PhD, 2011)*	**Professional Engineer**	Los Angeles City of Building and Safety Manager
Thesis: Diffraction of Anti-plane (SH) Waves Around Semi-Parabolic Surface Topographies in an Eklastic Half Space			

16	**Heather Brandow**	**Consulting Engineer**	Brandow & Nastar Inc.,

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	(PhD, 2014)		
Thesis: Diffraction of Anti-plane (SH) Waves Arbitrary-Shaped Surface Topographies in an Eklastic Half Space			

17	**Guanying Zhu (Judy)** *(PhD, 2015)*	**Engineer**	Tianjing, China
Thesis: Diffraction of Three-diemnsional (3D) Elastic Waves Around Hemispherical Surface Topographoes			

18	**Wen Young Liu (Ray)** *(PhD, 2017)*	**Professional Engineer**	Los Angeles
Thesis: Diffraction of Elastic Waves in Layered media			

19	**Thang Le** *(PhD, 2017)*	**Strucutral Engineer**	Los Angeles
Thesis: Soil-Strucutre Interaction of Flexible Foundation			

20	**Yiwei Cai, Physics** *(PhD, 2018)*	**Physics Scientist**	Taiwan, R.O.C.
Thesis: In-plane Soil-Structure Interaction of In-Plane Waves Excitation			

ii) Current Ph.D. Graduate Student, Science and Engineering, USC, Los Angeles, CA

	Name	Screening	Qualifying	Planned Defense Topic

B) Research Topics

i) Areas of Interests: Summary

Rotational Accelerogram			
PoroElastic**Wave Diffraction**	**Soil-**Flexible/Rigid Foundation/ Foundationless**-Structure Interaction (**SSI**)**		
Diffraction **by Both Surface and Subsurface Topographies**	Hill **Diffraction**	Scattering **of Tunnel in** Hill	
High Frequency **Diffraction of Elastic Waves**	**Diffraction, Anti-plane Soil Structure Interaction in** Wedge		
Mathematical **Methods in Engineering**	**Mathematical Logic**	Computer **Applications in Civil Engineering**	
Scaling and Regression ofEarthquake Engineering **Strong-Motion Data Parameters**	**Seismic** Risk **Analysis**		
Automatic Digitization **of Strong-motion Accelerograms,**LeAuto, **on PC**	**Strong-Motion Data** Processing		
Seismic Responses **of Canyons, Valleys, Foundations, Dams, Tunnels & Bridges**	Dynamics **of Structures**		
Wave **Propagation in Elastic Solids**	**Linear & nonlinear Solid** Mechanics	**Computer Aided Design** (CAD)	
Digital Signal **Analysis Applied Mechanics:** Applications **in Earthquake Engineering**	**Applied Mathematics**		

ii) Citation Studies

2002– 04	Science Index **Citations** of publications in Earthquake Engineering [R40]

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iii) Strong-motion Data Processing

2007 –	**Automatic digitization** of Strong-motion Analog records by ANY PC Windows Scanner
2004 –	Data Processing and Recording **at USC** [I23]
2002 –	Review of **Digitization, Data Processing& Dissemination** of Earthquake Ground Motion [C22, C23], [J67]
2000– 02	1200dpi **High Resolution**& 4096 **Gray** Levels Digitization by New HP ScanjetModels[C22, C23]

1998– 99	**Common Problems in Automatic Digitization** of Strong-Motion Accelerograms [J62]
1998– 00	Data **Processing** of High-Resolution Wide Band Accelerograms [C14]
1997– 98	**The Rinaldi Strong-Motion Accelerogram** of the 1994 Northridge Earthquake [J59]
1995 –	**Automatic Digitization** Software Scanning at **256 Gray &** 600 dpi by HP Scanjet [I19]
1994 –	Updating Automatic Digitization from 16 levels to 256 **levels of Gray** in Scanning [I14, I15]
1993 –	Installing Automatic Digitization and Data Processing of Strong-Motion Accelerograms Software in Univ. of **Roorkee, India**, using HP scanner interfaced with a 486 PC [I14]
1992 –	**Updating** Automatic Digitization with Both Mouse and Keypad as Pointing Device [I14]

1987 – 91	Automatic Digitization & Data Processing of Strong-Motion Accelerograms Using an **HP ScanjetDigital Scanner** Interfaced with PC, with Binary Levels (0 & 1) of Gray [I12], [C12], [R24]
1987 – 89	Interpretation of **Uniform and Non-Uniform Sampling** from Digitized Earthquake Data [J23]
1985 –	Strong Ground Motoion Studies for EathquakeEngineeirng Design Applications [I06, I08]
1984 – 90	**Fast Efficient Algorithms** for **Response Spectra** of Strong-Motion Accelerograms**[**J11, J17, J34]
1983 – 84	**Instrument Correction (ICR) of Velocity Galvanometer in china** [I02, I03], [J09]

1982 – 83	Response Envelope Spectra **Contour Plotting** [0I2, I03], [R10]
1981 – 84	**Digital Data Processing** : Bandpass, Differentiation and Integration Filters [I02, I03], I05], [C07],[R10]
1981 – 82	**Noise in Earthquake Accelerogram** Data [J08**]**
1980 – 84	Algorithm and subroutine for the Automatic Determination of **Bandpass Frequency** Limits of Strong-Motion Data , [I02, I03], [C06], [R10]
1979– 86	Time of **Maximum Response** of a Single-Degree-of-Freedom System to Earthquakes[C05], [R06], [J13]
1979– 80	**Fourier Amplitude Spectra (FS)** of Strong-Motion Accelerograms [J04]
1975– 77	Routine Automatic Digitization Systems (**RADS**) [R07, R08]
1973– 74	Accuracy of **Computed Ground Displacements** from Strong-Motion Accelerograms [C01], [J01
1969– 71	**RoutineData Processing** of Strong-Motion Accelerograms [R01]

iv) Earthquake Data Information System

94– 96, 99– 01	EQINFOS for the 1994 January 15 California**NorthridgeEarthquakeand**Strong (M > 5) **Aftershocks** [R38]
1993	EQINFOS for earthquakes in India. [I16], [R25, R26]
1991– -92	Earthquake Data Information System **(EQINFOS) on PC** [I14, I15]
1991	EQINFOS for earthquakes in **China**, mainly **Yunan Earthquake**

1990	EQINFOS for earthquakes in **Bulgaria**, between 1981-1987. **[**R23]
1987	EQINFOS for earthquakes in **Yugoslavia**, between 1975-1983. [R18]
1985– 87	EQINFOS for earthquakes in **U.S.A.**, between 1933-1985**.** [R16]
1981– 84	Development of the Earthquake Data Information System (**EQINFOS**). [I04], [R09]

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1976– 78	Uniformly Processed Strong-Motion **Accelerogram Data in Western USA: 1933– 71**[R02]

v) Regression Analysis and Scaling of Earthquake Strong-motion Parameters

2007	Review of Empirical Scaling of Response Spectral Amplitudes [J94]
2006	Studies on Regression of Wavelet Signals
2002	Review of **Empirical Scaling of Duration** of Earthquake Ground Motion [J70]
2002	Review of **Empirical Scaling of PSV** Response Spectra of Earthquake Ground Motion [J69]
1995– 2000	Regression of Fourier & Response Spectral Amplitudes in U.S.A. involving **Source-to-Station Path** Types [R27, R28, R29, R30, R31, R32, R33, R34, R35, R36]

1997	Discussion: **"Prediction of Horizontal Response Spectra in Europe"** [J58]
1993	Regression of **Near-field and Far-fieldPeak** Displacements in U.S.A.
1990– 93	Regression of **Fourier& Response** Spectral Amplitudes in Yugoslavia [I18], [J47, J51]
1990– 92	Frequency Dependent Attenuation in the **Balkan&Yugoslavia** Regions [J42]
1990– 92	Regression of Strong-Motion**Peak Velocity & Acceleration** in U.S.A.[J41]

1990	Correlation of **European Seismic Intensity** with Peaks of Strong-Motion Earthquakes [I13], [J40]
1989– 91	**Strong-Motion Magnitudes** in U.S.A. and Balkans[J33, J36]
1989– 90	**Attenuation of Seismic intensity** in the Balkans [J31]
1985– 93	Dependence of **PSV on Magnitude or M.M.I. and Both Local Soil and Geological Site Conditions** [R19, R21], [J19, J20, J22, J35, J37, J41, J44]
1985	Strong Ground Motoion Studies for **EathquakeEngineeirng Design Applications** [I06]

1984– 89	Characterization of **Modified Mercalli Intensity** (M.M.I.) Levels in Terms of Magnitudes and Epicentral Distances [R11], [J18], [R22]
1984– 87	Scaling of **Fourier (FS) & Response (PSV) Spectra** using Frequency Dependent Attenuation Function and Estimated Site Intensities [R13, R14]
1984	**Attenuation of M.M.I.** for Small Epicentral Distances in California
1983– 89, 94	**Frequency Dependent Attenuation** Function in Western U.S.A.[R12], [J27], [I17]

1983	Collection of info for both **Soil Parameters and Sedimentary Deposits**
1982	New Enlarged **Database** for the Statistics of Fourier and Response Spectra
1978– 80	Dependence of Response (PSV) & Fourier (FS) Spectra on **Sedimentary Deposits** [R04, R05]
1976	**Moving Window** Fourier Analysis of Structures
1976	Natural Periods, Relative Response and **Transfer Functions** of Structures

vi) SyntheticEarthquakes, Seismic Risk Analysis

2010	Uniform Hazard Spectra in Northwestern Bosnia and Herzegovina [J103]
2004– 05	Probabilistic Assessment of **Permanent Ground Displacement across Faults** [J93]
2002	Review of **Synthetic Strong-Motion** of Earthquakes[J72]
2002	Review of **Seismic Risk &Microzonation**[I22]
2000– 02	General **Time-Dependent Probability Distribution** of Earthquake Occurrences
1995	Uniform Probability Spectra for **Fault Geometry** in Shallow Seismodenic Zones [R37], [J52]

1995	Review of **Synthetic Time Histories** of Ground Motion [I20]
1991-92	Seismic Risk for General **Probability** Distribution of **Earthquake Occurrences** [J43]
1989	Seismic Risk Analysis by **Subduction Zones** and Vertical Dipping Planes

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1988	Seismic Risk Analysis in **Alaska**
1987– 90, 1996	**Synthetic Strain and Curvature** Accelerograms [C13], [J32, J56]

1985– 87	**Microzonation of a Metropolitan Area** in USA [I10], [R17], [J15]
1983– 87	**Synthetic Rocking, Torsional**Accelerograms [I07], [J12, J14]
1983– 85	**Uniform Risk Spectra** of Strong-Motion Accelerograms [I06, I08], [R15]
1979– 85	Seismic Risk Analysis using the **New Scaling Relations** [I03, I04, I05], [R05, R12, R13, R14]
1979– 82	**Seismic Risk** Programming on IBM, Data General, DEC 11/23, /34 & VAX [I01, I02, I03]

vii) Wave Diffraction - Soil-Structure Interaction

2006– 08	**Soil-**Flexible Foundation/ Foundationless**-Structure Interaction (**SSI**)**
2005– 06	Scattering & Diffraction of Subsurface topographies – Cavity in Poroelastic Layered Half-Space [J82]
2005– 06	Scattering & Diffraction of Surface topography – Canyon in Poroelastic Layered Half-Space [J92, J93]
2005– 06	Parabolic Valley; Elliptic Hill Diffraction; Tunnel within Hill

2004– 06	Diffraction of Plane P Waves around semi-Circular Hill [J85, J86]
2003– 05	New analytic solution for Antiplance Diffraction of semi-circular hill[J78, J79, J87]
2000– 05	Wave in **Fluid Saturated Porous (Poro-Elastic) Media** [T13, R39], [J82]
2002– 04	Antiplane Wave Diffraction by Semi-Circular **Tunnel in** semi-circular **Hill, Joint project** with TianjinUniversity[J77, J78]

2000– 04	Surface Motion Around **Circular Alluvial Layered Valley** [J63, J65, J66, J71, J74, J75, J76]
2000– 04	Anti-Plane Diffraction Around**Arbitrary-ShapedCanyon& Foundation on Wedge Space** [J73, J77]
2000– 03	Soil-Structure Interaction of **Rigid Foundation on Wedge-Shape** Half Space [T12], [J73]
1997– 00	Earthquake Deformation of **Underground Infrastructure** [C17, C18, C19], [J60, J68]
1996	**High Frequency Diffraction** of SH Waves by Canyons

1995	Wave Propagation in **Irregular Layered Media** with Surface Topographies
1994– 99	Diffraction of SH Waves by Surface Topographies of **Arbitrary Shape [**T09], [J61] **and** Subsurface Topographies of **Arbitrary Shape [**T09], [J50, J54, J64]
1993	Seismic Response of Structures in the Presence of Underground **Tunnels**
1990– 97	Diffraction of SH Waves by Canyons & Valleys on **Wedge-Shape Half Space[**T10], [J48, J49, J55, J57]

1990– 94	**Earthquake Response of Arbitrary-Shaped** Earth Dams **[T08], [J48, J49]**
1989	Discussion of Elastic Wave Diffraction by Surface & Subsurface Irregularities [I11]
1988– 93	Scattering and Diffraction of Elastic Waves by 2-D **Underground Tunnels [**T06], [J45, J46]
1987– 95	Diffraction by Three-Dimensional (3D) Cylindrical **Canal** [T07], [J53]
1988– 90	Wave Diffraction by semi-circular and **Parabolic Valley and Hill** [J28]

1986– 88	3-D Diffraction by **Underground Spherical Cavity [**C11], [J16]
1986– 90	**Earthquake Response of Long Buildings [**T03], [J26]
1986– 88	**Earthquake Response to Arch Dams** [T04]
1985– 90	Diffraction by **Shallow**SurfaceCanyons and Alluvial **Valleys [**T05], [J21, J24, J29, J30, J38, J39]
1984– 86	Investigation in **Inversion of Earthquake Source** [T02]

1980– 81	Effect of **Foundation Embedment** on Soil-Structure Interaction[C04], [J05]
1979– 84	Diffraction of Elastic Waves on **Hemispherical Canyon & Alluvial Valley** [T01], [R03], [J06, J07, J10]
1976– 79	Anti-plane Response of **Underground Cavity & Tunnel** [C03], [J03]

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1976	**Nonlinear Soil** Identification Problem [C02]
1975– 77	Three-Dimensional **Soil-Structure Interaction** [T01]

viii) Mathematical Logic

1973– 75	**Generic models** in Model and forcing theory [J01, J02]
1973-75	**Forcing Theory** [J01, J02]

IV) Teaching Experience

Civil Engineering Program Courses taught:

*Faculty Honor Roll On Teaching: **Rated** ≥ 4.25 of 5 (Undergraduate), ≥ 4.5 of 5 (Graduate) +Taught 1st time

	Spring / Fall			Spring	Fall		Spring	Fall
			2020	**CE225**	**215,507,526**	**2019**	**CE225,235 / 215,507,526**	
2018	CE225 205,	507, 526 (DEN)	**2017**	**Sabbatical**	205, 507 (DEN)	**2016**	**CE225, 458**	205, 507 (DEN)
2015	CE225, 565	205, 507 (DEN)	**2014**	*CE 225*	205, 507 (DEN)	**2013**	CE225, 325	205, 507 (DEN)
2012	CE 225, 525B 3.12, 4.44/3.50	205, 507 3.34,3.00	**2011**	CE 225, 565	205, 507	**2010**	**Sabbatical**	205, 507
2009	CE 225	205, 507	**2008**	CE 225, 325	205, 507	**2007**	225, **565***	**507***

	Spring	Summer	Fall		Spring	Summer	Fall
2006	CE 225, 565	525b	205, 507	**2005**	CE 205, **225***	525B	507
2004	CE**225*, 565***	–	507	**2003**	CE 225, **565***	225, 525B	507
2002	CE **225***, 565	525b	**Sabbatical**	**2001**	CE 225, 565	325, 525B	507

	Spring	Summer	Fall		Spring	Summer	Fall
2000	CE 225, **565***	**325***, 525B	507, 525B	**1999**	CE **225*, 565***	325, 525b	**325***, 507
1998	CE **225*, 565***	325, 525B	**225***, 507	**1997**	CE **225***, 565	**325***, 525b	225, 507
1996	CE 225, **565***	325, 525B	225, **407**+, 507	**1995**	CE **225**+, 565	225, **325**+, 525b	**Sabbatical**
1994	CE 225, 525a	225, 325, 525B	205, 507	**1993**	CE 525a, 565	227, 228, 525B	**205**+, 507
1992	CE 227, 565	227, 228, 525B	227, 507	**1991**	CE 227, 565	227, 525B	227, 507

	Spring	Summer	Fall		Spring	Summer	Fall
1990	CE **228**+, 565	227	227, 525B	**1989**	CE 525A, 565	525b,**541a**+	227, 525B
1988	CE 525, 565	–	227, 525B	**1987**	CE 525B, 565	–	227, 525B
1986	CE 525B,**565**+	525b	507	**1985**	CE 402, 409A	–	409A,**507**+
1984	CE409A, 5525B	226	402, 409A	**1983**	CE **226**+, 525B	–	**402**+**, 409A**+
1982	CE 525A, 525B	525b	**108**+**, 525B**+	**1981**	CE 227, 525A	–	**458**+
1980	CE 227	–	**525A**+	**1979**			**227**+

*Faculty Honor Roll On Teaching: **Rated** ≥ 4.25 of 5 (Undergraduate), ≥ 4.5 of 5 (Graduate) +Taught 1st time

C.E. Course information:

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i) Undergradate Courses:

Course	Description
CE 108	Introduction to **Computer Methods** in Civil Engineering (Computer programming)
CE 205	**Statics** (Statics of particles & rigid bodies; applications)
CE 225 **(was 227)**	**Mechanics of Deformable Bodies** (Solid Mechanics & Strength of materials) CE227 = CE205+CE225**Engineering Mechanics I** (Intro. to Statics + Strength of materials)
CE325 **(was 226,228)**	**Engineering Mechanics II** (Intro. to 2D & 3D Dynamics Principles) Was CE226, CE228, **Dynamics** (Dynamics of Particles & Rigid Bodies)
CE 402	**Computer Methods in Engineering** (Numerical Methods & Algorithms)
CE 407	**Analytical Mechanics** (Lagrangian Dynamics, Rigid-Body Motions
CE 409A	**Computer Aided Design I** (Interactive Graphics Design & Analysis)
CE 428	**Mechanics of Materials** (Stress & Strain, beams, shells & plates)
CE 458	**Theory of Structures II** (Stiffness, Flexibility Matrix Structural Analysis

ii) Graduate Courses:

Course	Description
CE 507	**Mechanics of Solids I** (Stress & Strain Principles & Applications)
CE 525A	**Engineering Analysis I** (Physical Problem Solutions by Math. Tools)
CE526 **(was CE525B)**	**Engineering Analysis II** (Complex Functions, Linear Algebra & PDE)
CE 541A	**Dynamics of Structures** (Free & Forced Structural Vibrations)
CE 565	**Elastic Wave Propagation** (Reflection, Scattering, Diffraction, Surface (& Sub-) Topogrphies).

V) Administrative Duty - University of Southern California:

Committee	Duty	Year
CEE Website Committee	**Design and administer CEE webpage activities**	**Fall 2013**
Engineering Faculty Council EFC	To implement new constitution in EFC under the direction of Faculty senate to include all tnure, tenure track and non-tenure track faculty memebers	Fall 2011-now
Viterbi School of Engineering Division of Engineering Education, D.E.E.: **http://viterbi.usc.edu/academics/dee/** Established in 2007, USCViterbiSchool's**Division of**	The division's main goals are to: • Implement a major curriculum reform in the school's undergraduate programs with the aim to better educate and prepare students for their future; • Address the needs of a large body of Master of Science students who use this as a	**Fall 08 — 2017**

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Engineering Education addressesvarious issues surrounding engineering education that impact all departments of the school. The organization is comprised of jointly-appointed, existing faculty, who focus a non-trivial part of their academic activities on engineering education at both the undergraduate and master's levels.	terminal professional degree, by guiding and assisting them in taking advantage of the opportunities provided by the industry; • Obtain funding for the implementation fo school-wide programs in engineering education.	
Astani CE/ENE **Undergraduate** Committee	Undergraduate curriculum and student affairs	**08 — now**
Astani CE/ENE Accreditation/Assessment Committee, renamed in 08 to **ABET Committee**	To implement **CE/ENE ABET Program Objectives & Outcomes**, outlined in ABET2000 criterisa, since our last visit on 2009.	**01— now**
Civil Engineering Graduate Curriculum Committee	To define Graduate degree programs	**06— 07**
Civil Engineering Ph.D. **Screening Examination** Committee	To give exam to PhD graduate students before admitting them to the qualifying committee. Exam scores are sent out to faculty for votes.	**84 Chair; 83, 85 — 93, 96 — 07**
Astani CE/ENEMerit Review Committee	To evaluate the performance of C.E. faculty on teaching, research and administrative duties	**06, 04, 02, 98, 84**
Civil Engineering Research Faculty Merit Review Committee	Same as merit review committee, for research faculty	**05 — 06**
Teaching Assistantship (TA) Committee	To evaluate and award TA to qualified applicants	**92 — 02**
C.E. Curriculum Committee	To evaluate and approve the Curriculum of CE Dept. programs	**92 — 94, 97 — 02**
Computer Committee	To maintain the students' computer romms hardware and software	
Adhoc Committee for CE **PhD Programs**	To define Graduate phD degree programs	**01 — 03**
U.S.C. **Patents and Technology Transfer** Committee	To evulate and approve USC application for patent applications	**93 — 98**
Computer committee	To define and administer computer facilities, hardware and software operation in department	**85 — 90, 94 — 95 96 — 02**
Space committee	To assign office desks to incoming teaching and research assistants	**89 — 93**
Interim**Curriculum** Committee, School	Curriculum matters of departments in the	**92 — 93**

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of Engineering	school of engineering	
Interim Academic **Budget Planning** Committee, School of Engineering	To attend meetings in the school to discuss budget planning	**92 Fall**
Undergraduate **Student Conversion** Committee	Call admitted students convincing them to attend USC	**90**
C.E. Seminar Committee	To sponser and invite guest speakers for CE weekly seminars	**84 – 85**

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