

## **CHOON PARK**

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### **PROFESSIONAL DEVELOPMENT**



Dr. Choon Park is lead author of the MASW technique published in *GEOPHYSICS* in 1999. He founded Park Seismic LLC in 2008, where he is currently working as the principal geophysicist. Since the late 1990s, Dr. Park has been researching, practicing, and promoting the MASW technique. Dr. Park received his Ph.D. from the University of Kansas (KU) in 1995, and then continued his career as a scientist at the Kansas Geological Survey (KGS), a research institute based at KU. Dr. Park has published more than a hundred papers on MASW and related techniques. He is the author of the *ParkSEIS* software released in 2015. He is also the author of *SurfSeis*, the first MASW data-processing software, and coauthored the seismic reflection software, *WinSeis* and its predecessor *Eavesdropper*. He received his master's (MS) degree from Ohio University (1988) and graduated from Seoul National University (1983) in Seoul, South Korea, with a BS in physics and science education.

### **EDUCATION**

- Ph.D., Geology (Emphasis in Geophysics), University of Kansas, Lawrence, Kansas, 1995.
- M. S., Geology (Emphasis in Geophysics), Ohio University, Athens, Ohio, 1990.
- B. S., Physics Education, Seoul National University, Seoul, Korea, 1985.

### **EMPLOYMENT**

- Founder/Principal Geophysicist, Park Seismic LLC, 2007-present.
- Assistant Scientist, Kansas Geological Survey, 1999-2006.
- Post-Doc., Kansas Geological Survey, 1995-1999.
- Graduate Research Assistant, Kansas Geological Survey, 1988-1995.
- Graduate Research Assistant, Ohio University, 1986-1988.

## **INTERESTS AND EXPERIENCE**

- MASW (Multichannel Analysis of Surface Waves) application for near-surface investigation (wind-turbine site characterization, ground stiffness mapping in 2-D and 3-D, etc.).
- Software development for shallow (surface- and body-wave) seismic data processing: the author of *ParkSEIS* and *SurfSeis* (MASW software) and co-author of *WinSeis* (reflection-data software).
- Seismic data processing technique for near-surface investigation.
- SIST (Swept Impact Seismic Technique) for high-resolution seismic investigation.

## **HONORS AND AWARDS**

- The “Best of SAGEEP” paper presentation, SAGEEP 2010, Keystone, CO, April 11-15, 2010.
- The “Best of SAGEEP” paper presentation, SAGEEP 2009, Fort Worth, TX, March 29-April 2, 2009.
- The “Best of SAGEEP” paper presentation, SAGEEP 2008, Philadelphia, PA, April 6-10, 2008.
- Distinguished Achievement Award (bestowed to Exploration Services Section at KGS in honor of achievement in near-surface seismic research), 2002, Society of Exploration Geophysicists (SEG) 72<sup>nd</sup> Annual Meeting, Salt Lake City, Utah, October 6-11.
- Defended Ph.D. thesis “with honors,” Department of Geology, University of Kansas, 1995.
- William W. Hambleton Student Research Award, Kansas Geological Survey, 1994.
- Honored Graduate Student Award, Ohio University, 1988.

## **INVITED PRESENTATIONS, SESSION CHAIR, AND PANELIST**

- Invited Presentation, Department Seminar, Geological Sciences, Brigham Young University, Provo, Utah, April 10, 2014.
- Session chair, Seismic surface-wave methods, Geo-Florida 2010, Geo-Congress Annual Meeting, West Palm Beach, FL, February 20-24, 2010.
- Session chair, Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2008), Philadelphia, April 6-10.
- Invited Presentation, The 3<sup>rd</sup> International Conference on Site Characterization (ISC3), Taipei, Taiwan, April 1-4, 2008.
- Invited Speaker, Samsung Engineering & Construction, Seoul, Korea, March 24, 2008.
- Invited Speaker, Korean Society of Exploration Geophysicists (K-SEG) Ann. Conference, Daejeon, Korea, May 26-27, 2006.

- Session chair, Environmental and Engineering Geophysical Society (EEGS) Annual Meeting, 2003, San Antonio, Texas.
- Invited Speaker, panelist, and session chair, Society of Exploration Geophysicists Japan (SEG-J) 5<sup>th</sup> International Symposium, 2001, Tokyo, Japan.
- Invited presentation and demonstration of MASW method , 1996, Geometrics Inc., San Jose, CA.
- Session chair , Korean Geophysical Society Annual Meeting, 1997, Seoul, Korea.

### **MASW SHORT COURSE TAUGHT**

- Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2014), Boston, Massachusetts, March 20, 2014.
- Geo-Congress 2012, Oakland, California, March 25, 2012.
- Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2005), Atlanta, Georgia, April 7, 2005.
- Kansas Geological Survey (KGS), University of Kansas (KU), Lawrence, January 13-14, 2005.
- Kansas Geological Survey (KGS), University of Kansas (KU), Lawrence, September 28-29, 2004.
- Kansas Geological Survey (KGS), University of Kansas (KU), Lawrence, October 7-8, 2004.
- Korean Society of Engineering Geology (KSEG) Ann. Mtng., Kang Won National University, Chun Cheon, Korea, April 30-May 1, 2004.
- Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2004), Colorado Springs, Colorado, February 26, 2004.
- Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2003), San Antonio, Texas, April 6, 2003.
- Kansas Geological Survey (KGS), University of Kansas (KU), Lawrence, November 6-7, 2003.
- Kansas Geological Survey (KGS), University of Kansas (KU), Lawrence, May 1-2, 2002.
- Tokyo, Japan, May 21, 2002.
- Seoul, Korea, February 8, 2001.

### **PUBLICATION (SELECTED LIST)**

For Dr. Park's full publication list, [click here](#).

**Park, C.B.**, 2015, MASW analysis of bedrock velocities from refractions as higher modes: Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2015), Austin, Texas, March 22-26.

- Park, C. B.**, 2011, Imaging dispersion of MASW data - full vs. selective offset scheme: *Journal of Environmental & Engineering Geophysics*, v. 16, no. 1, p. 13-23.
- Park, C.B.**, 2010, Roadside passive MASW survey - dynamic detection of source location: Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2010), Keystone, Colorado, April 11-15, Proceedings on CD Rom.
- Park, C.B.**, 2008, Imaging dispersion of passive surface waves with active scheme: Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2008), Philadelphia, April 6-10, Proceedings on CD Rom.
- Park, C.B.**, and Carnevale, M., 2010, Optimum MASW survey - revisit after a decade of use: Geo-Institute Ann. Mtng (GeoFlorida 2010), February 20-24, 2010, West Palm Beach, FL.
- Park, C. B.**, and Miller, R.D., 2008, Roadside passive multichannel analysis of surface waves (MASW): *Journal of Environmental & Engineering Geophysics*, v. 13, no. 1, p. 1-11.
- Park, C.B.**, Miller, R.D., and Xia, J., 1999, Multi-channel analysis of surface waves (MASW): *Geophysics*, v. 64, no. 3, p. 800-808.
- Park, C.B.**, Miller, R.D., Steeples, D.W., and Black, R.A., 1996, Swept impact seismic technique (SIST): *Geophysics*, 61, 1789-1803.
- Park, C.B.**, and Black, R.A., 1995, Simple time-variant band-pass filtering by operator scaling: *Geophysics*, 60, 1527-1535.
- Park, C.B.**, and Miller, R.D., 2008, Roadside passive multichannel analysis of surface waves (MASW): *Journal of Environmental & Engineering Geophysics*, v. 13, no. 1, p. 1-11.
- Park, C.B.**, Miller, R.D., N. Ryden, J. Xia, and J. Ivanov, 2005, Combined use of active and passive surface waves: *Journal of Environmental & Engineering Geophysics*, v. 10, no. 3, p. 323-334.
- Park, C.B.**, Miller, R.D., Xia, J., and Ivanov, J., 2007, Multichannel analysis of surface waves (MASW)—active and passive methods: *The Leading Edge (TLE)*, v. 26, no. 1, p. 60-64.
- Park, C.B.**, Miller, R.D., Xia, J., Ivanov, J., Sonnichsen, G.V., Hunter, J.A., Good, R.L., and Burns, R.A., 2005, Underwater MASW to evaluate stiffness of water-bottom sediments: *The Leading Edge (TLE)*, v. 24, no. 7, p. 724-728.
- Park, C.B.**, 2006, SurfSeis-active and passive MASW (User's Manual v 2.0): Kansas Geological Survey.
- Park, C.B.**, Miller, R.D., and Xia, J., 1998, Imaging dispersion curves of surface waves on multi-channel record: [*Expanded Abstract*]: Soc. Explor. Geophys., 1377-1380.
- Park, C.B.**, and Shawver, J.B., 2009, Multi-source offset MASW survey: Proceedings of SAGEEP 2009, Fort Worth, Texas, March 29-April 2 (BEST OF SAGEEP PAPER).
- Park, C.B.**, 2008, Imaging dispersion of passive surface waves with active scheme: Proceedings of SAGEEP 2008, Philadelphia, April 6-10 (BEST OF SAGEEP PAPER).
- Park, C.B.**, and Miller, R.D., 2005a, Seismic characterization of wind turbine sites near Lawton, Oklahoma, by the MASW method: *Kansas Geological Survey Open-file Report 2005-22*.
- Park, C.B.**, and Miller, R.D., 2005b, Seismic characterization of wind turbine sites in Kansas by the MASW method: *Kansas Geological Survey Open-file Report 2005-23*.
- Park, C.B.** and Ryden, N., 2007b, Offset selective dispersion imaging: Proceedings of SAGEEP 2007, Denver, April 1-5.