

# Publication list of Laszlo B. Kish

(Until 1999, his family name was Kiss)

September 2018.

**417 items listed**

*(Conference posters without paper publication are omitted)*

**A: Patents and patent disclosures** (25 items: 9 patents and 16 disclosures)

**B: Books/proceedings** (16 items)

**C: Peer reviewed journal articles** (219 articles)

(C<sup>+</sup>: Invited review papers in peer reviewed journals: 6 articles)

(C: Regular papers in peer reviewed journals: 213 articles)

**D: Invited and plenary talks at international conferences** (67 articles)

**E: Book chapters and regular talks at international conferences** (90 articles)

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## A. Patents and patent disclosures (25 items)

**(6 US patents, 3 Swedish patents and 16 disclosures of other inventions)**

- A-25. J. Song, **L.B. Kish**, "Linear resistor plugin with ultra-low noise temperature without cooling", TAMU patent disclosure, submitted on May 4, 2018.
- A-24. G. Schmera, **L.B. Kish**, "Bacteria Identification by Phage Induced Impedance Fluctuation Analysis, BIPIF", US Patent US9645101B2 (granted May 9, 2017). <https://patents.google.com/patent/US9645101B2>
- A-23. E. Gonzalez, **L.B. Kish**, R. Balog, "Encryption Key Distribution System and Method", U.S. Patent # US9270448B2 (granted 2/2016), <https://patents.google.com/patent/US9270448B2>
- A-22. H. Wen, **L.B. Kish**, G. Schmera, "High-dimensional Noise-based logical controller", TAMU-Navy patent disclosure, TAMUS-3660, (February 2012).
- A-21. **L.B. Kish**, J.O. Jensen, G. Schmera, C. Kwan, M. King, "Utilization of shot noise to enhance mass spectrometry", Signal Processing Inc. patent disclosure, July 23, 2009.
- A-20. **L.B. Kish**, J.O. Jensen, G. Schmera, C. Kwan, M. King, "Utilization of diffusion noise to enhance ion mobility analysis", Signal Processing Inc. patent disclosure, July 23, 2009.
- A-19. H.C. Chang, **L.B. Kish**, "Vertical-compression and vertical-vibration methods for vibration-induced conductance fluctuation study of soils (VC-VICOF and VV-VICOF)". TAMU, March 19, 2008.
- A-18. Ch. Kwan, **L.B. Kish**, G. Schmera, "High Performance Chemical Agent Classification Framework", Signal processing cp. - TAMU - SPAWAR patent disclosure, May 1, 2007.
- A-17. **L.B. Kish**, "Methods of Using Existing Wire Lines (powerlines, phonelines, internet lines, etc.) for Totally Secure Classical Communication Utilizing Kirchoff's Law and Johnson-like Noise (KLJN), TAMU patent disclosure", October 2, 2006.
- A-16. **L.B. Kish**, C.L.S. Morgan, A. Kishne, "Vibration-induced conductance fluctuation (VICOF) testing of soils", TAMU patent disclosure, October, 2005.
- A-15. **L.B. Kish**, "Totally Secure Classical Communication Utilizing Johnson (-like) Noise and Kirchoff's Law", TAMU patent disclosure, September 15, 2005.
- A-14. **LB. Kish**, Stealth Communication. Zero-Signal-Power Communication: Zero-Power Classical Communication, Zero-Quantum Quantum Communication and Environmental-Noise Communication,

- TAMU patent disclosure, August 18, 2005.
- A-13. J. Bergou and **L.B. Kish**, A New Quantum Communicator with Enhanced Security, no Detection Noise, no Entanglement and no Classical Channel, CUNY-TAMU patent disclosure, July 5, 2005.
  - A-12. J.R. Biard and **L.B. Kish**, Enhancing the sensitivity of the SEPTIC bacterium detection method by concentrating the phage-infected bacteria via dc electrical current, TAMU patent disclosure, May 18, 2005.
  - A-11. **L.B. Kish**, M. Cheng, R. Young, M. King, S. Bezrukov, "Sensing Phage-Triggered Ion Cascade (SEPTIC)", November 24, 2004. US Patent # US7229754B2. <https://patents.google.com/patent/US7229754>
  - A-10. **L.B. Kish**, P.M. Ajayan, Magnetic Flash Memory with Carbon Nanotubes, TAMU-RPI patent disclosure, September 2004.
  - A-9. J. Smulko, **L.B. Kish**, G. Schmera, "System and Method for Gas Recognition by Analysis of Bispectrum Function", US Patent # US7680607B1, <https://patents.google.com/patent/US7680607B1/en?q=US7680607B1>
  - A-8. G. Schmera, **L.B. Kish**, "System and Method of Molecule Counting Using Fluctuation Enhanced Sensors", US Patent # US7524460B1 (April 28, 2009). <https://patents.google.com/patent/US7524460B1>
  - A-7. **L.B. Kish**, S. Sethuraman, Non-Breakable Data Encryption with Classical Information, TAMU patent disclosure, May 2004.
  - A-6. S. Bezrukov, M. Cheng, M.D. King, **L.B. Kish**, R.Y. Young, "MOSFET-Based Biochip for Detection of Phage Infection of Bacteria, NIH and TEES-TAMU patent disclosure, December 2003.
  - A-5. G. Schmera and **L.B. Kish**, "System and method of fluctuation enhanced gas-sensing using saw devices", US Patent, US Patent US7286942B1 (May 2003). <https://patents.google.com/patent/US7286942B1>
  - A-4. **L.B. Kish**, "Quantum Computing by Analog Electronic Circuits", **TEES patent disclosure**, TEES 1921, (July 2002)
  - A-3. **L.B. Kish**, C.G. Granqvist and R. Vajtai (1999), "Sampling-and-Hold Chemical Sensing by Noise Measurements for Electronic Nose Applications", **Swedish patent** # SE 9904209-5 (now, public) <http://was.prv.se/spd/pdf/RdizounvzhfWS3oljenFIQ/SE515249.C2.pdf>
  - A-2. **L.B. Kish**, C.G. Granqvist, J. Söderlund (1998), "Particle size determination", **Swedish patent**, # SE 9803320-2; Publ. No.: SE 513194 (now, public). <http://was.prv.se/spd/pdf/FngdBYIMdpXWS3oljenFIQ/SE513194.C2.pdf>
  - A-1. **L.B. Kish**, C.G. Granqvist, J. Söderlund, "Detection of chemicals based on resistance fluctuation-spectroscopy", **Swedish patent**, # SE 9803019-0; Publ. No.: 513148 (now, public) <http://was.prv.se/spd/pdf/8V-xToJGAh7WS3oljenFIQ/SE513148.C2.pdf>

## B. Monograph; edited books; edited journal issues; and proceedings (16 items)

- B-16. **L.B. Kish (ed.)**, "Special Issue "Novel Sensors Based on Metal Oxide Films and Structures", *Sensors* **18** (2018) [http://www.mdpi.com/journal/sensors/special\\_issues/Novel\\_Structures](http://www.mdpi.com/journal/sensors/special_issues/Novel_Structures)
- B-15. **L.B. Kish**, "The Kish Cypher. The story of KLJN for unconditional security". (2017), World Scientific. ISBN: 978-981-4449-45-8 (**hardcover**); and ISBN: 978-981-4449-47-2 (**ebook**). <https://sites.google.com/site/kishcypher/>
- B-14. H. Wen, D.K. Ferry, **L.B. Kish**, Proceedings of the International Workshop on Hot Topics in Physical Information (HoTPI-2013), Hunan University, Changsha, China, 10–13 November 2013, *International Journal of Modern Physics: Conference Series* **33** (2014) <http://www.worldscientific.com/toc/ijmpcs/33>
- B-13. S.M. Bezrukov, L.K.J. Vandamme, **L.B. Kish**, (eds.), "Special issue on 1/f noise", *Fluct. Noise Lett.* **10** (2011) December.
- B-12. C.G. Granqvist, **L.B. Kish** (eds.), "Sensing of Organic Pollution in Soil, Air, Water and Food", *Sensors* (special issue ISSN 1424-8220) 2011; [http://www.mdpi.com/journal/sensors/special\\_issues/sopsawf/](http://www.mdpi.com/journal/sensors/special_issues/sopsawf/).
- B-11. **L.B. Kish**, G. Schmera (eds.), "Metal-oxide Based Nanosensors", *Sensors* (special issue, ISSN 1424-8220, open access journal), February 28, 2010; [http://www.mdpi.com/journal/sensors/special\\_issues/metal\\_oxide\\_based\\_nanosensors/](http://www.mdpi.com/journal/sensors/special_issues/metal_oxide_based_nanosensors/)

- B-10.** **L.B. Kish**, K. Lindenberg and Z. Gingl (eds.), "Noise in Complex Systems and Stochastic Dynamics", Proceedings of SPIE International Conference on Noise in Complex Systems and Stochastic Dynamics, Austin, Texas, May 2005, **SPIE - The International Society of Optical Engineers**, SPIE Proceedings Series.
- B-9.** C.G. Granqvist, **L.B. Kish**, W.H Marlow, (eds.), "Gas Phase Nanoparticle Synthesis", Kluwers Academic (2004)
- B-8.** J. Smulko, Y. Blanter, M. Dykman and **L.B. Kish** (eds.), "Noise and Information in Nanoelectronics, Sensors and Standards", Proceedings of SPIE International Conference on Noise and Information in Nanoelectronics, Sensors and Standards, Canary Islands, May 2004, **SPIE - The International Society of Optical Engineers**, SPIE Proceedings Series vol. 5472.
- B-7.** **L.B. Kish**, F. Green, G. Iannaccone, J.R. Vig (eds.), "Noise and Information in nanoelectronics, sensors and Standards", Proceedings of SPIE International Conference on Noise and Information in nanoelectronics, sensors and Standards, Santa Fe, June 2003, **SPIE - The International Society of Optical Engineers**, SPIE Proceedings Series vol. 5115.
- B-6.** V. Varadan and **L.B. Kish** (eds.), "Smart Electronics, MEMS, BioMEMS, and Nanotechnology", Proceedings of SPIE International Conference on Smart Electronics, MEMS, BioMEMS, and Nanotechnology, San Diego, March 2003, **SPIE - The International Society of Optical Engineers**, SPIE Proceedings Series vol. 5055.
- B-5.** **L.B. Kish** (ed.), "Special Issue on BIOMEMS and Smart Nanostructures", Smart Materials and Structures, Volume **11**, Number 5, October 2002, **Institute of Physics Publishing**, Oxford.
- B-4.** **L.B. Kish** (ed.), "BioMEMs and Smart Nanostructures", Proceedings of the SPIE International Conference on BioMEMs and Smart Nanostructures, Adelaide, Australia, 17-19 December 2001, **SPIE - The International Society of Optical Engineers**, SPIE Proceedings Series 4590.
- B-3.** D. Abbott, **L.B. Kish** (eds.), "Unsolved Problems of Noise and Fluctuations", Proceeding of the 2nd international conference on Unsolved Problems of Noise (UPoN'99), Adelaide, Australia, 1999, **American Institute of Physics**, Melville, NY (2000).
- B-2.** Ch. Doering, **L.B. Kish**, M. Shlesinger (eds.), "Unsolved Problems of Noise", Proceeding of the 1st international conference on Unsolved Problems of Noise (UPoN'96), Szeged, Hungary, 1996, **World Scientific**, Singapore (1997).
- B-1.** A. Bulsara, S. Chillemi, **L.B. Kish**, P.V.E. McClintock, R. Mannella, F. Marchesoni, K. Nicolis, K. Wiesenfeld (eds.), "Fluctuations in Physics and Biology: Stochastic Resonance, Signal Processing and Related Phenomena" Proceeding of the international workshop held at Elba Island, Italy, June 1994, *Nuovo Cimento* **D 17** (1995).

## **C. Peer reviewed journal articles (219 articles)**

### **C<sup>+</sup>. Invited review papers in peer reviewed journals (6 articles)**

- C<sup>+</sup>-6.** **L.B. Kish**, F. Peper, Information Networks Secured by the Laws of Physics, Invited paper, *IEICE Transactions on the Fundamentals of Communications, Electronics, Information & Systems*, Vol. **E95-B**, No.05 (May 2012) pp. 1501-1507.
- C<sup>+</sup>-5.** **L.B. Kish**, S.P. Khatri, S.M. Bezrukov, F. Peper, Z. Gingl, T. Horvath, "Noise-based deterministic logic and computing: a brief survey", *International Journal of Unconventional Computing* **7** (2011 February) 101-113.
- C<sup>+</sup>-4.** **L.B. Kish**, "Absolutely Secure Communications by Johnson-like Noise and Kirchhoff's Laws", *Journal of the Society of Instrument and Control Engineers* (SICE, Japan) **49** (2010) 212-216.
- C<sup>+</sup>-3.** **L.B. Kish**, P. Svedlindh, "Noise in high Tc superconductors", *IEEE Trans. on Electron Devices* **41** (1994) 2112

- C<sup>+</sup>-2. **L.B. Kish** and P. Svedlindh, M. Bjornander, P. Nordblad, F. Masszi and J. Magnusson, "Noise in high T<sub>c</sub> superconductors", *Journal on Communications* **46** (1995) 20.
- C<sup>+</sup>-1. **L.B. Kish**, "On fluctuations with a 1/f spectrum and the non-existence of the quantum 1/f noise effect", *Reviews of Solid State Science* **2** (1988) 659.

### C. Regular papers in peer reviewed journals (213 articles)

- C-213. M. Melhem, **L.B. Kish**, "Static-loop-current attack against the KLJN secure key exchange system", submitted
- C-212. **L.B. Kish**, W. Daugherity, "Noise-based logic gates by operations on the reference system", accepted for publication in *Fluct. Noise. Lett.* (June 2018).
- C-211. J. Song, **L.B. Kish**, "Does a standalone, "cold" (low-thermal-noise), linear resistor exist without cooling?", accepted for publication in *Fluct. Noise. Lett.* (May 2018).
- C-210. **L.B. Kish**, D.K. Ferry, "Information entropy and thermal entropy: apples and oranges", *J. Comp. Electr.* **17** (March 2018) 43–50; <https://arxiv.org/abs/1706.01459>
- C-209. K.M. Sundqvist, D.K. Ferry, **L.B. Kish**, "Second Law based definition of passivity/activity of devices", *Physics Letters A* **381** (2017) 3364–3368; <https://arxiv.org/abs/1705.08750>
- C-208. K.M. Sundqvist, **L.B. Kish**, "Memristor equations: incomplete physics and undefined passivity/activity", *Fluct. Noise. Lett.* **16**, (2017) 1771001; <https://arxiv.org/abs/1703.09064>
- C-207. D. Grigoriev, **L.B. Kish**, V. Shpilrain, "Yao's millionaires' problem and public-key encryption without computational assumptions", *Int. J. Foundations Comp. Sci.* **28** (2017), 379-389.
- C-206. B. Zhang, **L.B. Kish**, C.G. Granqvist, "Drawing from hats by noise-based logic", *International Journal of Parallel, Emergent and Distributed Systems* **32** (2017), 244-251; <http://dx.doi.org/10.1080/17445760.2016.1140168> ; <http://arxiv.org/abs/1511.03552>.
- C-205. **L.B. Kish**, K. Entesari, C.G. Granqvist, C. Kwan, "Unconditionally secure credit/debit card chip scheme and physical unclonable function", *Fluct. Noise. Lett.* **16** (2017) 1750002; <http://arxiv.org/abs/1605.02355>
- C-204. M. Trawka, J. Smulko, L. Hasse, C.G. Granqvist, R. Ionescu, E. Llobet, F. Annanouch, **L.B. Kish**, "UV-Light Induced Fluctuation Enhanced Sensing by WO<sub>3</sub> - based Gas Sensors; *IEEE Sensors* **16** (2016) 5152-5159.
- C-203. J. Lee, F. Peper, S.D. Cotofana, M. Naruse, M. Ohtsu, T. Kawazoe, Y. Takahashi, T. Shimokawa, **L.B. Kish**, T. Kubota, "Brownian circuits: Design", *International Journal of Unconventional Computing* **12** (2016) 341–362.
- C-202. **L.B. Kish**, G.A. Niklasson, C.G. Granqvist, "Zero-point term and quantum effects in the Johnson noise of resistors: A critical appraisal", *J. Stat. Mech.* (2016) 054006. doi:10.1088/1742-5468/2016/05/054006 . <http://arxiv.org/abs/1504.08229> .
- C-201. **L.B. Kish**, "Comments on "Sub-k<sub>B</sub>T Micro-Electromechanical Irreversible Logic Gate" ", *Fluct. Noise. Lett.* **15** (2016) 1620001. <https://arxiv.org/abs/1606.09493>
- C-200. **L.B. Kish**, C.G. Granqvist, "Comments on "A New Transient Attack on the Kish Key Distribution System"", *Metrology and Measurement Systems* **23** (2016), No. 3, pp. 321–331. Open access: <https://www.degruyter.com/view/j/mms.2016.23.issue-3/mms-2016-0039/mms-2016-0039.xml?rskey=meXrW6&result=1>
- C-199. **L.B. Kish**, G.A. Niklasson, C.G. Granqvist, "Zero thermal noise in resistors at zero temperature", *Fluct. Noise. Lett.*, **15** (2016) 1640001. Online: [http://www.researchgate.net/publication/303959024\\_Zero\\_Thermal\\_Noise\\_in\\_Resistors\\_at\\_Zero\\_Temperature](http://www.researchgate.net/publication/303959024_Zero_Thermal_Noise_in_Resistors_at_Zero_Temperature)
- C-198. H.P. Chen, M. Mohammad, **L.B. Kish**, "Current Injection Attack against the KLJN Secure Key Exchange", *Metrology and Measurement Systems* **23** (2016) pp. 173–181. Open access: <https://www.degruyter.com/view/j/mms.2016.23.issue-2/mms-2016-0025/mms-2016-0025.xml>.
- C-197. E. Gonzalez, **L.B. Kish**, "Key exchange trust evaluation in peer-to-peer sensor networks with unconditional secure key exchange", *Fluct. Noise Lett.* **15** (2016) 1650008. <http://arxiv.org/abs/1511.06795>
- C-196. **L.B. Kish**, C.G. Granqvist, "Random-resistor–random-temperature Kirchhoff-law-Johnson-noise (RRRT-KLJN) key exchange", *Metrology and Measurement Systems* **23** (2016) pp. 3-11. open access: DOI: [10.1515/mms-2016-0007](https://doi.org/10.1515/mms-2016-0007) , <http://arxiv.org/abs/1509.08150>, <http://vixra.org/abs/1509.0259>

- C-195.** L.B. Kish, C.G. Granqvist, S.P. Khatri, F. Peper, "Response to "Comment on 'Zero and negative energy dissipation at information-theoretic erasure'", *J. Computational Electronics* **15** (2015) 343-346. <http://arxiv.org/abs/1602.02638> .
- C-194.** H.P. Chen, E. Gonzalez, Y. Saez, L.B. Kish, "Cable Capacitance Attack against the KLJN Secure Key Exchange", *Information* **6** (2015) 719-732. open access, <http://www.mdpi.com/2078-2489/6/4/719/htm> , DOI:10.3390/info6040719 , <http://arxiv.org/abs/1508.02984> , <http://vixra.org/abs/1508.0079> .
- C-193.** L.B. Kish, C.G. Granqvist, S.P. Khatri, F. Pepper, "Zero and negative energy dissipation at information-theoretic erasure", *J. Computational Electronics* **15** (2015) 335-339. DOI: 10.1007/s10825-015-0754-5. <http://arxiv.org/abs/1507.08906> , <http://vixra.org/abs/1507.0221> .
- C-192.** L. Lentka, J.M. Smulko, R. Ionescu, C.G. Granqvist, L.B. Kish, "Determination of gas mixture components using fluctuation enhanced sensing and the LS-SVM regression algorithm", *Metrology and Measurement Systems* **22** (2015) 341–35.
- C-191.** E. Gonzalez, R. Balog, L.B. Kish, "Resource Requirements and Speed versus Geometry of Unconditionally Secure Physical Key Exchanges", *Entropy* **7** (2015) 2010-2024; doi:10.3390/e17042010; open access. <http://www.mdpi.com/1099-4300/17/4/2010>.
- C-190.** J. Smulko, M. Trawka, C.G. Granqvist, R. Ionescu, F.E. Annanouch, L. Llobet, L.B. Kish, "New approaches for improving selectivity and sensitivity of resistive gas sensors: a review", *Sensor Review* **35** (2015) 340-347.
- C-189.** E. Kish, C.G. Granqvist, A. Der, L.B. Kish, "Lognormal distribution of firing time and rate from a single neuron?", *Cognitive Neurodynamics* **9** (2015) 459-462; DOI: 10.1007/s11571-015-9332-6 . <http://arxiv.org/abs/1412.1778> ; <http://vixra.org/abs/1411.0115>
- C-188.** Z. Topalian, S.Y. Li, G. Niklasson, C.G. Granqvist, L.B. Kish, "Resistance noise at the metal-insulator transition in thermochromic VO<sub>2</sub> films", *J. Applied Phys.* **117**, (2015) 025303. <http://arxiv.org/abs/1411.2026> ; <http://vixra.org/abs/1411.0061>
- C-187.** L.B. Kish, Z. Gingl, R. Mingesz, G. Vadai, J. Smulko, C.G. Granqvist, " Analysis of an attenuator artifact in an experimental attack by Gunn-Allison-Abbott against the Kirchhoff-law-Johnson-noise (KLJN) secure key exchange system", *Fluct. Noise Lett.* **14** (2015) 1550011. DOI: 10.1142/S021947751550011X <http://arxiv.org/abs/1411.0818> ; <http://vixra.org/abs/1410.0122>
- C-186.** X. Cao, Y. Saez, G. Pesti, L.B. Kish, "On KLJN-based secure key distribution in vehicular communication networks", *Fluct. Noise Lett.* **14**, (2015) 1550008. <http://arxiv.org/abs/1409.5911> ; <http://vixra.org/abs/1408.0145>
- C-185.** L.B. Kish, "Enhanced usage of keys obtained by physical, unconditionally secure distributions", *Fluct. Noise Lett.* **14** (2015) 1550007. <http://arxiv.org/abs/1408.5800>
- C-184.** L.B. Kish, C.G. Granqvist, "Elimination of a Second-Law-attack, and all cable-resistance-based attacks, in the Kirchhoff-law–Johnson-noise (KLJN) secure key exchange system", *Entropy* **16** (2014) 5223-5231. open access, <http://www.mdpi.com/1099-4300/16/10/5223> ; <http://arxiv.org/abs/1406.5179> ; <http://vixra.org/abs/1406.0124>
- C-183.** H.P. Chen, L.B. Kish, C.G. Granqvist, G. Schmera, "On the "cracking" scheme in the paper "A directional coupler attack against the Kish key distribution system" by Gunn, Allison and Abbott". *Metrology and Measurement Systems* **21** (2014), 389–400. open access. <http://www.degruyter.com/view/j/mms.2014.21.issue-3/issue-files/mms.2014.21.issue-3.xml> ; <http://arxiv.org/abs/1405.2034>; <http://vixra.org/abs/1404.0081>
- C-182.** Y. Saez, X. Cao, L. B. Kish, G. Pesti, "Securing Vehicle Communication Systems by the KLJN Key Exchange Protocol", *Fluct. Noise Lett.* **13** (2014) 1450020. <http://arxiv.org/abs/1404.1900>
- C-181.** H.P. Chen, L.B. Kish, C.G. Granqvist, G. Schmera, "Do electromagnetic waves exist in a short cable at low frequencies? What does physics say? *Fluct. Noise Lett.* **13** (2014) 1450016. <http://arxiv.org/abs/1404.4664> ; <http://vixra.org/abs/1403.0964>
- C-180.** L.B. Kish, C.G. Granqvist, "On the security of the Kirchhoff-law-Johnson-noise (KLJN) communicator", *Quantum Information Processing* **13** (2014) pp 2213-2219. <http://arxiv.org/abs/1309.4112> ; <http://vixra.org/abs/1309.0106>



- C-179. Y. Saez, **L.B. Kish**, R. Mingesz, Z. Gingl, C.G. Granqvist, "Current and voltage based bit errors and their combined mitigation for the Kirchhoff-law-Johnson-noise secure key exchange", *Journal of Computational Electronics* **13** (2014) 271–277.  
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- C-178. B. Ayhan, C. Kwan, J. Zhou, L.B. Kish, K.D. Benkstein, P.H. Rogers, S. Semancik, "Fluctuation enhanced sensing (FES) with a nanostructured, semiconducting metal oxide film for gas detection and classification", *Sensors and Actuators B: Chemical* **188** (2013) 651-660.
- C-177. **L.B. Kish**, D. Abbott, C.G. Granqvist, "Critical analysis of the Bennett-Riedel attack on secure cryptographic key distributions via the Kirchhoff-law-Johnson-noise scheme", *PLoS ONE* **8** (2013) e81810. open access:  
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- C-176. Y. Saez, **L.B. Kish**, "Errors and their mitigation at the Kirchhoff-law-Johnson-noise secure key exchange", *PLoS ONE* **8** (2013) e81103. doi:10.1371/journal.pone.0081103; open access:  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0081103> .
- C-175. **L.B. Kish**, Ch. Kwan, "Physical Unclonable Function Hardware Keys Utilizing Kirchhoff-Law-Johnson-Noise Secure Key Exchange and Noise-Based Logic", *Fluct. Noise Lett.* **12** (2013) 1350018.  
<http://vixra.org/abs/1305.0068> ; <http://arxiv.org/abs/1305.3248>
- C-174. **L.B. Kish**, C.G. Granqvist, "Does Information Have Mass?", *Proc. IEEE* **101** (2013) 1895-1899.  
<http://www.vixra.org/abs/1309.0094>
- C-173. E. Gonzalez, **L.B. Kish**, R. Balog, P. Enjeti, "Information theoretically secure, enhanced Johnson noise based key distribution over the smart grid with switched filters", *PLoS ONE* **8** (2013) e70206; open access:  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0070206>
- C-172. **L.B. Kish**, "Enhanced secure key exchange systems based on the Johnson-noise scheme", *Metrology & Measurement Systems* **20** (2013) 191–204; open access:  
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- D-67. **L.B. Kish**, D. Niklasson, C.G. Granqvist, D. Ferry, J. Smulko, "Facts and myths about zero-point thermal noise, and information entropy versus thermal entropy", invited talk, Proc. 24th International Conference on Noise and Fluctuations, June Vilnius, Lithuania, June 20-23, 2017.  
*Presented by L.B. Kish.*
- D-66. **L.B. Kish**, C.G. Granqvist, S.P. Khatri, K. Sundqvist, F. Peper, "Information, noise and energy dissipation: Laws, limits and applications", plenary talk at International Workshop on Molecular Architectonics, Shiretoko, Hokkaido, Japan, August 3-6, 2015; in "Molecular Architectonics, Advances in Single Atom and Molecular Machines", ed. T. Ogawa, Springer (2017).  
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- D-65. **L.B. Kish**, G. Niklasson, C.G. Granqvist, "All that glitters is not gold: Zero-point energy in the Johnson noise of resistors", invited talk, 7th International Conference on Unsolved Problems on Noise, Barcelona, Casa Convalescència, Spain, July 13-17, 2015.  
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- D-64. **L.B. Kish**, S.P. Chen, C.G. Granqvist, J. Smulko, "Waves in a short cable at low frequencies, or just hand-waving? What does physics say?", invited talk at the 23rd International Conference on Noise and Fluctuations (ICNF 2015), Xian, China, June 2-5, 2015. DOI: 10.1109/ICNF.2015.7288604  
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- D-63. **L.B. Kish**, C.G. Granqvist, S. Khatri, "Demonic" challenge: Landauer's erasure dissipation", invited talk at the 44th Winter Colloquium on the Physics of Quantum Electronics, PQE-2014, January 6-9, 2014, Snowbird, UT.  
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*Presented by L.B. Kish.*
- D-61. H. Wen, **L.B. Kish**, "Noise Based Logic: Why Noise?", Invited talk at **ICCAD 2012 in the Special Session: Computing in the Random Noise: The Bad, the Good, and the Amazing Grace**, November 5,



2012, San Jose, California.  
*Presented by L.B. Kish.*

- D-60.** R. Mingesz, **L.B. Kish**, Z. Gingl, C.G. Granqvist, H. Wen, F. Peper, T. Eubanks, G. Schmera, "Information theoretic security by the laws of classical physics", Plenary talk at the 5th IEEE Workshop on Soft Computing Applications, (SOFA 2012) August 2012, Szeged, Hungary. In: Balas VE et al. (Eds.), Soft Computing Applications, AISC 195, pp. 11–25 (Springer). <http://arxiv.org/abs/1206.2534>  
*Presented by L.B. Kish (theory), and R. Mingesz (live demonstration).*
- D-59.** **Kish LB**, Granqvist CG (2011) Energy requirement of control: Comments on Maxwell's demon and Szilard's engine. In: Alfinito E, Leuzzi M, Millithaler J-F (editors), *All the Colors of Noise: Essays in Honor of Lino Reggiani*. Cormigliano del Brenta: Munari Edizione. pp. 43–50.  
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*Paper presented by L.B. Kish.*
- D-57.** **L.B. Kish**, "Johnson engines and demons", Invited Talk, **9th International Conference on Nanomolecular Electronics (ICNME 2010)**, December 14-16, 2010, Kobe, Japan.  
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*Paper presented by L.B. Kish.*
- D-54.** **L.B. Kish**, "Speed, error and heat in classical and non-conventional general-purpose computing initiatives", Invited Talk, presented at: **Quantum Computing: Possibilities and Realities**, CIFAR Nanoelectronics Program - Fall 2008 Meeting, November 13-16, 2008, Halifax, Canada.  
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- D-53.** F. Peper, **L.B. Kish**, K. Leibnitz, J.-Q. Liu, "Methods to Exploit Noise in the Design of Complex Systems" **Proc. SICE Symp. on Systems and Information (SSI 2008)**, Catalog number 08SY0014, pp. 231-236, Nov. 26-28, Himeji, Japan, 2008.  
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- D-51.** **L.B. Kish**, R. Mingesz, Z. Gingl, G. Schmera, J. Smulko, Ch. Kwan, P. Heszler, C.G. Granqvist, "Novel applications of noise in sensing and communications", Invited Talk, **19th International Conference on Noise and Fluctuations**, Tokyo, September 9-14, 2007. Proc. AIP.  
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- D-49.** **L.B. Kish**, G. Schmera, Ch. Kwan, J. Smulko, P. Heszler, C.G. Granqvist, "Fluctuation-enhanced sensing", Keynote Invited Talk at the **Conference on Noise in Materials, Devices and Circuits at SPIE's Fourth International Symposium on Fluctuations and Noise (FaN'07)**, Florence, Italy, May 20-24, 2007. Proc. of the SPIE, (2007).  
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*Paper presented by Maria King.*
- D-44.** **L.B. Kish**, Y. Li, "Heat, Speed and Error Limits of Moore's Law at the Nano Scale", Invited Talk, **Second Conference on Nanoscale Devices and System Integration**, April 4-6, 2005, Houston, TX, USA.  
*Paper presented by Y. Li.*
- D-43.** M.D. King, S. Seo, J.U. Kim, M. Cheng, **L.B. Kish**, S. Bezrukov, R.F. Young, "Fatal Scream" of Bacteria Infected by Phages: Nanoscale Detection of Bacteriophage Triggered Ion Cascade", Keynote Invited Talk, **4th International Conference on Unsolved Problems of Noise**, Jun 6-10, 2005, Gallipoli, Italy. Editors L. Reggiani, C. Pennetta, V. Akimov, E. Alfinito, M. Rosini, AIP Conference Proceedings 800 (2005) 273-278.  
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*Paper presented by L.B. Kish.*
- D-40.** J. U. Kim, S. Seo, M. D. King, M. Cheng, R. F. Young, S. Bezrukov, A. Der, **L.B. Kish**, "Agent-triggered ion cascade of bacteria detected in electrical field fluctuations", Invited Talk, conference **Noise and Information in Nanoelectronics, Sensors and Standards III, SPIE's Third International Symposium on Fluctuations and Noise (FaN'05)**, Austin, TX, May 24-26, 2005.  
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- D-38.** M. D. King, S. Seo, J. U. Kim, M. Cheng, **L. B. Kish**, R. F. Young, "Nanoscale detection of bacteriophage triggered ion cascade, invited talk, conference **Fluctuations and Noise in Biological, Biophysical and Biomedical Systems III, SPIE's Third Symposium on Fluctuations and Noise (FaN'05)**, Austin, TX, May 24-26, 2005.  
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*Paper presented by Peter Heszler.*
- D-36.** **L.B. Kish**, "Noise in Nanoscale Electronic Devices and Sensors", invited talk at the **DARPA – Defense Science Research Council (DSRC) workshop "Noise and Interference in High Performance Electronics"**, Arlington, May 6, 2003.  
*Paper presented by L.B. Kish.*
- D-35.** **L.B. Kish**, "Noise, speed and dissipation: end of Moore's law of miniaturization", invited talk, conference **Noise in Electronic Devices and Circuits, SPIE's First Symposium on Fluctuations and Noise (FaN'03)**, Santa Fe, NM, June 1-4, 2003.  
*Paper presented by L.B. Kish.*
- D-34.** **L.B. Kish**, "Quantum Computing with Analog Circuits: Hilbert Space Computing", keynote address talk, conference on **Smart Electronics, MEMS, BioMEMS, and Nanotechnology; SPIE's Symposium on Smart Materials and Structures**, San Diego, March 2003.  
*Paper presented by L.B. Kish.*
- D-33.** **L.B. Kish**, "Thermal (Noise) Death of Moore's Law ?", invited talk, Conference on the Physics of Quantum Electronics, January 5-10, 2003, Snowbird, UT.  
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- D-32.** **L.B. Kish**, "Thermal (Noise) Death of Moore's Law?", plenary talk, **3<sup>rd</sup> International Conference on Unsolved Problems of Noise (UPoN'2002)**, National Institute of Health, Bethesda, MD, September 3-6, 2002  
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- D-31.** **L.B. Kish**, "Noise, information, power dissipation, size and speed in nano-ionic and nano-electronic systems", invited talk, **NATO Advanced Research Workshop on Stochastic systems: from Randomness to Complexity**, Erice (Sicily), July 26-Aug. 01, 2002.  
*Paper presented by L.B. Kish on July 29, 2002.*
- D-30.** **L.B. Kish**, "Electronic Noise in Nanoelectronic Building elements for NanoMEMS and BioMEMS", keynote talk, at **SPIE's International Symposium on Smart Structures and Materials**, San Diego, 17-21 March 2002  
*Paper presented by L.B. Kish on the 18th of March, 2002.*
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