

Jonathan Wells, Ph.D., M.B.A.

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Wireless Communications Expertise

- Cellular Networks (2G, 3G, 4G, 5G, IS-95, GSM, GPRS, EDGE, UMTS, CDMA, WCDMA, HSPA, LTE and LTE-Advanced)
- Cellular Infrastructure (Handsets, Base Stations, Backhaul and RANs)
- Wireless LANs (Wi-Fi and Bluetooth)
- Wireless Standards, Rules and Regulations (3GPP, 3GPP2, IEEE, FCC, ETSI, CEPT)
- Radio Frequency (RF), Microwave and MM-Wave Devices, Systems and Networks
- RF Design, including RF Assemblies, Components and Integrated Circuits (ICs, MMICs)
- Intellectual Property, Patent Analysis and Litigation Support

Professional Summary

Dr. Wells has 30 years of wireless communications experience gained from working in three continents. He is currently an independent consultant providing expertise on cellular technologies, wireless devices, network infrastructure and wireless rules and regulations to a client base of attorneys, intellectual property organizations, investment and research institutions, public listed and private companies. Dr. Wells has over 40 academic and commercial publications and presentations, and is lead inventor on several patents. He is Senior Member of the IEEE and is author of “Multi-Gigabit Microwave and Millimeter-Wave Wireless Communications,” Artech House, 2010.

Employment History

2007 to present **AJIS Consulting, Pleasanton, CA** *Independent Consultant*

Provide independent technical consulting on wireless communications and emerging wireless fields.

- Technical expert support of 2G, 3G and 4G cellular and wireless patent litigation.
- Analysis of cellular and mobile wireless patents and infringing equipment.
- Cellular and wireless technology technical and industry analysis for companies, analysts and investment institutions. Research and publication of analyst reports.
- Wireless product development and marketing strategies.
- Specialized technical workshops on various wireless technologies; including cellular networks, mm-wave radios, security sensors and short range radios.
- Specialized global regulatory tasks and product approvals.

2005 to 2007 **GigaBeam Corporation, Herndon, VA**
Director Product Management and Global Regulatory Affairs

Responsible for product strategy for industry-transforming high data rate wireless product.

- Initiated market development in over 40 countries including in Europe, Canada, Caribbean, Latin America, Middle East and Asia.
- Participated and drove standard development in FCC, CEPT and ETSI technical meetings.

2000 to 2004 **Stratex Networks (now Aviat Networks), San Jose, CA**
Director Product Development

Responsible for global product development of high-end digital microwave radios primarily for cellular backhaul applications.

- Led RF/microwave development team of 35 engineers based in two continents.
- Technical leadership of flagship Eclipse product, shipping over 250,000 units.
- Technical management of overseas manufacturing subcontractors.

1998 to 2000 **Adaptive Broadband (now GE Digital Energy), Rochester, NY**
1999-2000: Director Wideband Products, 1998-9: Engineering Group Leader

Full responsibility for the Terrestrial Infrastructure Group, providing telecommunications products for cellular and private network applications.

- P&L responsibility for \$4M wireless division.
- Responsible for the development of a family of digital radios and associated switching / multiplexing equipment.

1994 to 1998 **MAS Technology (now Aviat Networks), Wellington, New Zealand**
1995-98: RF Group Manager, 1994-95: Senior RF Design Engineer

Responsible for RF hardware development for cellular and telecommunications applications.

- Developed three generations of wireless transmission, switching and multiplexing products.
- Design and sustaining responsibility for satellite ground station terminals.
- Responsible for company's European regulatory approvals.

1993 to 1994 **Matra Marconi Space, Portsmouth, UK** *Senior Design Engineer*

- Developed GaAs MMIC mixer and MIC transmitter board for two satellite payloads.
- Theoretical analysis and modeling of low noise VCOs.

1990 to 1992 **University of Bath, Bath, UK** *Post Doctoral Research Officer*

- Fabricated novel quantum amplifiers in clean room environment.
- Developed computer models to predict semiconductor device performance.

1987 to 1990 **British Aerospace, Filton, Bristol, UK** *Engineer (part time)*

- Designed and fabricated novel mixer devices, to support PhD research.

1985 to 1986 **Plessey Research, Caswell, UK** *Engineer (1 year placement)*

- Developed high speed fiber optic transmitter / receiver devices.

Education

- 1998 M.B.A., awarded with Distinction, Massey University, New Zealand
- 1991 Ph.D., Physics, University of Bath, United Kingdom. Sponsored by British Aerospace.
- 1987 B.Sc., Physics with Physical Electronics, awarded with First Class Honours, University of Bath, United Kingdom

University Instruction

- 2014 Intellectual Property: Patent Law, Prof. Mark Lemley, Stanford Law School, Stanford University, CA, USA
- 2004 AeA/Stanford Executive Institute for Management of High-Technology Companies, Stanford Graduate School of Business, Stanford University, CA, USA

Non-Confidential Expert Witness Experience

- Oct 2017 to Present *Sharp v. Hisense*, ITC Inv. No. 337-TA-1072
Case: ITC hearing related to two Wi-Fi patents.
Role: Consulting expert for respondent.
- Aug 2017 to Present *Optis Wireless v. Huawei*, 2:17-cv-00123-JRG
Case: Patent case related to three cellular patents.
Role: Testifying expert for defendant. Provided declaration.
- Aug 2017 to Present *Securus v. Global Tel*Link*, PGR2017-00005
Case: Post grant review proceeding related to one wireless communication patent.
Role: Technical expert for patent owner. Provided declaration.
- June 2017 to Present *Hitachi Maxell v. Huawei*, 5:16-cv-00178-RWS
Case: Patent case related to three cellular and cellular / Wi-Fi patents.
Role: Testifying expert for defendant. Provided declaration.
- Nov 2016 to Present *Apple v. Qualcomm*, 3:17-cv-00108
Case: Case related to licensing of cellular and wireless patents.
Role: Consulting expert for plaintiff.
- Apr 2016 to Present *Huawei v. T-Mobile*, 2:16-cv-00055, 2:16-cv-00056
Case: Patent case related to five cellular and cellular / Wi-Fi handover patents.
Role: Testifying expert for plaintiff. Provided two Expert Reports and multiple supplements. Deposed twice.

- Feb 2016 to July 2016 *Unwired Planet v. Huawei and Samsung*, UK High Court, HP-2014-000005
Case: UK patent court case related to four European 2G, 3G and 4G/LTE cellular communication patents.
Role: Testifying expert for defendant. Provided two Expert Reports.
- Jan 2016 to April 2017 *Apple, Microsoft et al v. Evolved Wireless*, IPR2016-00981, IPR2016-01177, IPR2016-01185, IPR2016-01208/01209, IPR2016-01228/01229
Case: *Inter Partes Reviews* of five wireless communication patents.
Role: Technical expert for petitioners. Provided five declarations. Deposed four times.
- July 2015 to June 2016 *Ericsson v. Intellectual Ventures*, IPR2015-01367
Case: *Inter Partes Review* of a wireless communication patent.
Role: Technical expert for patent owner. Provided declaration. Deposed.
- July 2015 to Feb 2016 *Core Wireless v. LG, Google et al*, 2:14-cv-00911 and 00912
Case: Patent case related to location using cellular devices.
Role: Testifying expert for defendants. Provided Expert Report.
- May 2015 to May 2016 *Adaptix v. Ericsson et al*, 6:14-cv-00501, 00502 and 00503, 6:15-cv-00042
Case: Patent case related to three 4G/LTE communication patents.
Role: Testifying expert for plaintiff. Provided two Expert Reports and multiple declarations.
- May 2015 to Dec 2015 *Adaptix v. Alcatel-Lucent et al*, 6:15-cv-00041
Case: Patent case related to three 4G/LTE communication patents.
Role: Testifying expert for plaintiff.
- April 2015 to Dec 2015 *Ericsson v. Apple*, ITC Inv. No. 337-TA-952
Case: ITC hearing related to Bluetooth and cellular / Wi-Fi device patents.
Role: Testifying expert for respondent. Provided two Expert Reports and two Witness Statements. Deposed. Testified at hearing.
- Dec 2014 to Sept 2015 *Ericsson v. Intellectual Ventures*, IPR2014-01471
Case: *Inter Partes Review* of a wireless communication patent.
Role: Technical expert for patent owner. Provided declaration. Deposed.
- Dec 2014 to Sept 2015 *Ericsson v. Intellectual Ventures*, IPR2014-01412
Case: *Inter Partes Review* of a wireless communication patent.
Role: Technical expert for patent owner. Provided declaration. Deposed.
- Nov 2014 to Present *Regents of the University of Minnesota v. AT&T et al*, 0:14-cv-4666
Case: Patent case related to five 4G/LTE communication patents.
Role: Consulting expert for plaintiff.
- Oct 2014 to Aug 2015 *Ericsson v. Intellectual Ventures*, IPR2014-01330
Case: *Inter Partes Review* of a wireless communication patent.
Role: Technical expert for patent owner. Provided declaration. Deposed.

- Sept 2014 to
May 2015 *Ericsson v. Intellectual Ventures*, IPR2014-00963
Case: *Inter Partes Review* of a wireless communication patent.
Role: Technical expert for patent owner. Provided declaration. Deposed.
- Sept 2014 to
Oct 2014 *Ericsson v. TCL Communication Technology Holdings*, 2:14-cv-677
Case: Patent case related to a 4G/LTE communication patent.
Role: Consulting expert for defendant.
- Sept 2014 to
Sept 2014 *Ericsson v. Intellectual Ventures*, IPR2014-00958
Case: *Inter Partes Review* of a wireless communication patent.
Role: Technical expert for patent owner.
- Jan 2014 to
Aug 2014 *Cell and Network Selection v. AT&T et al*, 6:13-cv-00403
Case: Patent case related to a 4G/LTE communication patent.
Role: Testifying expert for plaintiff.
- Jan 2014 to
Jan 2015 *Cell and Network Selection v. MetroPCS et al*, 6:13-cv-00404
Case: Patent case related to a 4G/LTE communication patent.
Role: Testifying expert for plaintiff. Provided two Expert Reports. Deposed.
- Jan 2014 to
Mar 2016 *Adaptix v. Ericsson et al*, 6:12-cv-00049, 00050 and 00369
Case: Patent case related to three 4G/LTE communication patents.
Role: Testifying expert for plaintiff. Provided two Expert Reports. Deposed.
- Jan 2014 to
Dec 2015 *Adaptix v. Alcatel-Lucent et al*, 6:12-cv-00022, 00122 and 00123
Case: Patent case related to three 4G/LTE communication patents.
Role: Testifying expert for plaintiff. Provided two Expert Reports. Deposed.
Testified at trial.
- Oct 2013 to
Jan 2014 *Ericsson v. Samsung*, 6:12-cv-00894 and 00895
Case: Patent case related to 24 wireless communication patents.
Role: Testifying expert for defendant.
- June 2013 to
Dec 2013 *Adaptix v. Ericsson*, ITC Inv. No. 337-TA-871
Case: ITC hearing related to 4G/LTE wireless communication patent.
Role: Testifying expert for complainant. Provided Expert Report and Witness
Statement. Deposed.
- Mar 2013 to
Sept 2014 *Mobile Telecommunication Technologies v. BlackBerry*, 3:12-cv-01652
Case: Patent case related to five wireless communications patents.
Role: Consulting expert for plaintiff.
- Mar 2013 to
Dec 2013 *Mobile Telecommunication Technologies v. Sprint*, 2:12-cv-00832
Case: Patent case related to five wireless communications patents.
Role: Consulting expert for plaintiff.

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