LES (USA & Canada)
Silicon Valley Chapter

5G & IP
Are You Ready?

19th ANNUAL CONFERENCE PROGRAM

April 17, 2019 – Oracle Redwood City

The 5th generation of wireless protocols is starting to be implemented in chips, devices, software, services, and applications this year. The next 12 to 18 months will see first adopters such as telecom companies making 5G a reality. Following widespread telecom rollout, 5G will then begin to enable vertical applications requiring order-of-magnitude bandwidth/speed improvements to be viable, such as the Internet of Things, self-driving vehicles, and telemedicine.

The 19th Annual LES-SVC Conference is filled with a program of experts who will provide answers to your questions including:

- What is 5G and why does it matter?
- Who are the 5G players in semiconductors, handsets, IoT, and other affected markets?
- What are the key new enterprise and consumer-facing applications that 5G enables?
- What does the 5G patent landscape look like?
- What are the licensing and other partnering models for 5G, and what are their business and IP implications?

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PROGRAM SCHEDULE
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(See presenters' bios under separate handout.)

8:00 a.m.-9:00 a.m. **Registration & Full Breakfast**

9:00 a.m.-9:15 a.m. **Welcome**

9:15 a.m.-10:00 a.m. **Keynote: "5G Technology"**

Dr. Kirti Gupta, Vice President, Technology & Economic Strategy, Qualcomm, Inc.
Fifth generation cellular is the most ambitious project of the wireless industry thus far. Every car we drive, every home we live in, every appliance we use, every computer or cell phone we own, every technology we possess, will rely on 5G. Dr. Gupta, a leading visionary in the field, will preview the technical challenges and IP policy issues on the path to making 5G a reality.

10:00 a.m.-10:45 a.m. **"5G & Patent Landscaping"**

5G technology - the latest evolution of cellular mobile communications - is expected to have a massive impact on connecting people and devices. 5G will vastly improve wireless communications connecting millions of devices with higher bandwidth and data rates, and significantly fewer transmission delays. Whether through technology and product innovation, licensing, litigation, or patent pools, 5G patents will play a key role in the roll-out of this exciting technology revolution. To date, there are thousands of standards and patents focused on core 5G technologies including carrier equipment, wireless protocols, handset chips, as well as others directed to end-use applications. A high-level overview of the 5G patent landscape will be presented with a focus on some of the key technologies and assignees associated with one of the main standard setting bodies and look closely at a set of self-declared standard essential patents.

Presenter: Matt Rappaport, President, IP Checkups, Inc.

10:45 a.m.-11:00 a.m. **Break**

11:00 a.m.-12:30 p.m. **"5G Wireless Patent Licensing: The Next Generation"**

To fulfill the promise of 5G wireless technology and allow its widespread adoption, it is critical to address the management and distribution of IP rights efficiently and effectively. In previous wireless technology generations, negotiations have often been slow and inefficient, regularly requiring litigation to resolve what it meant to license on FRAND terms as mandated by the standards bodies. Experts from different sides of the debate will share their views on several complex issues, including:

- What new approaches can be taken in 5G to accelerate the patent licensing process, while still providing fair compensation to the innovators at rates that are acceptable for implementers from diverse markets?
- Can patent pool licensing, buyer pools or other collaborative licensing vehicles help?
- Should governments mandate patent rights frameworks, as they generate large revenues from auctioning spectrum licenses?
- Has the time come for new market-based models like previously proposed by IPXI?

Panel:
Patricio Delgado, Vice President, FRAND Compliance & New Initiatives, IPR & Licensing, Ericsson
Byron Holz, Head of IP Services, Nokia
Ken Korea, Senior Vice President, Head of Silicon Valley IP Office, Samsung Electronics, Inc.
Luke McLeroy, SVP Business Development, Avanci
Moderator: Stefan Tamme, VP of Worldwide Licensing and IP Strategy, Rambus, Inc.

12:30 p.m.-1:30 p.m. **Buffet Lunch**

1:30 p.m. – 3:00p.m. **"Do Investors Care about 5G & IP"**

5G is expected to a boom for startups innovating in artificial intelligence, additive manufacturing, robotics, signal optimization, and augmented and virtual reality (AR/VR). Advantages of signal performance improvement from 5G will be faster video streaming and real-time gaming. Opportunities will abound in the entire information and communications technology industry – including chipmakers, hardware and software companies. With the higher speed data transfer businesses will have countless devices communicating to each other and into the cloud, streaming massive amounts of data. IoT devices will proliferate at an even higher rate. All of which will present opportunities for inventors and startups to offer new technologies. And the angels and VC's who will finance them.

Panel:
Mark Jen, Co-Founder and CTO, Common Networks
Bill Loesch, Member, Band of Angels
Steve Millard, Co-Founder of four companies taken public and acquired
Ms. Manthi Nguyen, Board Director, Sand Hill Angels
Randy Williams, Founder and CEO, Keiretsu Forum
Moderator: Mark Holmes, Founder & CEO, PatentBridge

3:00 p.m.-3:15 p.m. **Break**

3:15 p.m.-3:45 p.m. **"5G and Huawei: Business & National Security Issues"**
Presentation:
Thomas Klitgaard, Of Counsel, Dillingham & Murphy, LLP, Adjunct Professor, USF School of Law, Former SVP/General Counsel, SEGA of America and Tandem Computers

5G is not just a national security issue, but even more so, a national competitiveness issue. Should the United States, like King Canute of England, Denmark, Norway and parts of Sweden, who died in 1035, try to hold back the tide? Can it? Does the legal or licensing system, China's in the case of Huawei, offer any protection for the United States? Can existing (or new) laws make any difference or provide any help in any event?

3:45 p.m.-4:30 p.m. **"Looking at the 5G IP Big Picture - Now, Where Do We Go from Here?"**

With the popularity of last year's wrap-up session, we decided to do a repeat from the 5G and IP angle: where are we now – where are we going? We will recap the key takeaways from the day's presentations, followed by an interactive discussion among session presenters and attendees addressing overflow questions from throughout the day and other questions, including:

- Who are the dominant new players that will emerge in the 5G ecosystem compared to 3G/4G/LTE?
- What should new applications enabled/impacted by 5G (e.g., autonomous cars, telemedicine, IoT) do to prepare for 5G (whether deal making, regulatory, IP or other issues)?
- When will we experience robust 5G network connectivity? Robust 5G consumer products & services? 5G IP wars?
- Where in the world will 5G (network/product/services) rollouts happen the fastest/slowest, and why?
- Why will worldwide 5G networks be compatible (or not)?
- How do you expect 5G to most positively/negatively impact your industry? Your profession? Your life?

Facilitator: Joseph Yang, Partner, PatentEsque Law Group

4:30 p.m.-4:45 p.m. **Closing Remarks**

MCLE CREDIT: *5.75 hours MCLE credit available. Sign-in sheet will be available at 4:30 p.m. at the Conference Registration Desk.*