

HPQ Silicon Resources to present at InvestorIntel's 6th Annual Cleantech & Technology Metals Summit

Bernard Tourillon to present "Canada's Only Public Pure Play Investment in the Lucrative Solar Grade Silicon Market"

May 11, 2017 – HPQ Silicon Resources Inc. (TSXV: HPQ), making solar cheaper than fossil energy, is pleased to announce that they will be presenting at **InvestorIntel's 6th Annual Cleantech & Technology Metals Summit** (CTMS2017.com | @CTMS2017). Featuring some of the most impressive market movers in the cleantech and technology metals sector, #CTMS2017 is scheduled for Monday, May 15th and Tuesday, May 16th at the Omni King Edward Hotel in Toronto, Canada located at 37 King St. East.

Bernard Tourillon, Chairman, CEO and Director of HPQ Silicon Resources Inc. will be presenting on Tuesday, May 16th from 12:15 – 12:40 PM (EST). Presenting **Canada's Only Public Pure Play Investment in the Lucrative Solar Grade Silicon Market**. HPQ Silicon has partnered with PyroGenesis Canada Inc., a world leader in plasma technology, to develop THE PUREVAP™: A quartz vaporization reactor – which HPQ Silicon has exclusive world-wide use of. The one step process for reducing quartz to high purity silicon and/or polycrystalline silicon, highlights a low Opex, low Capex, a minimal carbon footprint and is environmentally friendly. PUREVAP is a technology that could revolutionize the making of solar panels into a more competitive source of renewable energy.

InvestorIntel Corp. CEO Tracy Weslosky commented: "It is with great pleasure that we announce the participation of HPQ

Silicon Resources as a presenter at our 6th annual Cleantech and Technology Metals Summit. We have over 100 companies participating in what is intended to be the most exciting review of global equities focused on strategic materials, critical metals and the associated technologies that impact the world. Please note that Bernard will also be on a panel moderated by InvestorIntel Sr. Editor Peter Clausi to debate on innovative processes to supply the new energy economy on Monday, May 15th from 9:00 – 9:50 AM (EST). We look forward to our best #CTMS event to-date.”

#CTMS2017 Delegate Passes:

To secure a 2-day InvestorIntel’s 6th Annual Cleantech & Technology Metals Summit delegates pass (includes lunches/reception) for Monday, May 15th and Tuesday, May 16th from 8AM – 6PM (EST), click on the following link: <http://bit.ly/2p2lC3k>

#CTMS Contact Information: For more information on InvestorIntel’s 6th Annual Cleantech & Technology Metals, please contact us at +1 647 345 5486 or email info@investorintel.com. For regular updates on the **Cleantech & Technology Metals Summit**, please go to CTMS2017.com or follow us on twitter @CTMS2017.

InvestorIntel to host the 6th Annual Cleantech & Technology Metals Summit in Toronto on

May 15-16th, 2017

December 13, 2016 – On behalf of the team of InvestorIntel, a leading online source of independent investor information, we are pleased to announce the **6th Annual Cleantech & Technology Metals Summit** (@CTMS2017) scheduled for Monday, May 15th and Tuesday, May 16th at the Omni King Edward Hotel in Toronto, Canada.

InvestorIntel Corp. CEO Tracy Weslosky commented: “It is with great pleasure that we announce our 2-day annual investor event on Monday, May 15th and Tuesday, May 16th – the **6th Annual Cleantech & Technology Metals Market Summit** with this year’s theme – ***Invest in Sustainability***. Traditionally we attract global leaders in the technology metals sector, but this last year we had wider representation from the cleantech sector with battery storage, water desalination and even graphene technology companies presenting. Additionally, I would like to welcome Neil Lock to the InvestorIntel team as he takes on the leadership role as the Summit Director for this year’s event. With expert panellists that examine various ground breaking cleantech technologies, the impact of geopolitical and financial issues on sustainability, and the ongoing race for critical materials in the global technology market: we believe CTMS2017 will be our most **remarkable** year to date!”

“Metals, alloys, and advanced materials play a vital role in reducing life-cycle environmental impacts and enhancing the sustainability of many products, particularly when they are used to lightweight transportation and other systems,” said Mark A. Smith, CEO and Executive Chairman of NioCorp Developments Ltd. “Pick your molecule of concern – carbon dioxide, methane, nitrogen oxides, volatile organic compounds – reducing mass in transportation and infrastructure systems via lightweighting can deliver large emissions reductions, and

relatively quickly. I see the current lightweighting revolution accelerating on a global scale, helping to drive demand for many metals and high-performance alloys that reduce mass, increase fuel efficiency, and reduce a broad range of manmade emissions into the atmosphere.”

Managing Director of Alkane Resources Ltd. Ian Chalmers adds: “Rare earths and rare metals are used to tailor the properties of advanced materials and reduce their size or weight, for use in clean and sustainable technologies. Certain rare earths are in particularly high demand for use in lightweight high-strength magnets for high-efficiency electric motors, while others are key components of photovoltaics, electronics and speciality alloys. This makes them vital components of many technologies we take for granted – including smart devices, auto fuel systems, wind turbines and industrial gas turbines.”

Cleantech & Technology Metals Summit 2017: The **Cleantech & Technology Metals Summit** is intended to provide a strong venue for dialogue and debate from industry leaders and the investment community alike and is being held on Monday, May 15th and Tuesday, May 16th from 8AM – 6PM. Located at the Omni King Edward Hotel on 37 King St. East in Toronto, Ontario – Canada, to register as a delegate, go to <http://bit.ly/2h4EE54>. Cost is CAD\$1000 per delegate for the 2-day event and includes breakfast and lunch. There is an early bird registration discount of 25% through January 30, 2017.

Presentations: C-level presentations confirmed include: Alkane Resources Ltd., H2O Innovation Inc., HPQ Silicon Resources Inc., Nemaska Lithium Inc. and NioCorp Developments Ltd.

Accommodations: To make reservations at the Omni King Edward Hotel for dates between May 14-17th and to access the **Cleantech & Technology Metals Summit 2017** CAD\$TBD special rate per night, [click here](#) or go to the following

link: <https://www.omnihotels.com/hotels/toronto-king-edward/meetings/cleantech-technology-metals-summit-2017>

Contact Information: For more information, contact the 6th **Annual Cleantech & Technology Metals Summit Director** Neil Lock at +1 647 345 5486 or Neil@InvestorIntel.com. For regular updates on the **Cleantech & Technology Metals Summit** agenda, please follow us on twitter @CTMS2017.

HPQ Silicon set to disrupt technology in solar panel market

☒ Last week I had the privilege to sit down with Bernard Tourillion, Chairman and CEO of **HPQ Silicon Resources Inc.** (“HPQ”) (TSXV: HPQ).

On 2 November 2016, HPQ achieved breakthrough in silica/quartz technology in that their processing engineering firm, PyroGenesis Canada Inc (“PyroGenesis”) released a report indicating that PUREVAP™ QRR process is capable of using silicon dioxide (SiO₂) feed material that does not even meet the minimal industry specification to make Ferrosilicon₂ and produce Silicon Metal (Si) of greater purity than what can be achieved by traditional processes used to make Metallurgical Grade Silicon Metal (98.5% to 99.5% Si).

For us non-process engineering experts, let’s unpack what this means and the significance of this achievement.

Silicon dioxide silica, quarts and SiO₂ are synonyms for one of the world’s most common mineral deposits. While high purity

deposits are ubiquitous, high purity deposits with SiO₂ above 99% grade and low levels of impurities is rare. As such, the EU began including high purity silica on its critical list in 2014. Moreover high purity silica is recognized as a critical input into making solar panels and the US Department of Justice recognized the need for high purity silica in artillery manufacture.

Until now, high silica purity grades for use in solar panels could only be achieved by refining medium grade silica into high purity metal using the Siemens process.

HPQ commissioned PyroGenesis to develop the PureVAP™ process which was capable of taking low grade silica material and in a single-step process, developing high grade silica. On the 2nd of November, a significant milestone toward that goal was achieved. Testing are still ongoing with the goal of making material for use in solar panel,

With respect to costs, the PureVAP™ process capex requirements is estimated at around \$18.5/kg Si, compared to \$75/kg for the Siemen's Process in China or \$100/kg in the USA.

The goal now is for HPQ to receive the PureVAP™ patent and to move to a commercial phase with an objective of building around 20,000 tpa of capacity within the next 5-7 years.

With respect to funding, HPQ is entitled to R&D research credits worth about 30% of C\$7.726m from Canada. The project is further eligible for government funding (Provincial and Federal) which will cover 55-80% of the projected costs. Furthermore, over C\$2.77m worth of warrants are already in the money and management hopes to explore several non-dilutive options for financing the pilot plant.

I discussed the business model with well-known traders who prefer to remain anonymous. They indicated that HPQ seems

sound, provided they could get a contract with an end user as the solar panel market is said to be “difficult to get a foot in.” To this end, what impressed me is Bernard’s constant focus on commercialization. He mentioned that already they had been approached by a French solar panel manufacturer to explore synergies.

In my experience, few junior mining projects consider the commercial viability so soon, tending to rather focus on geology, processing and financing. HPQ has focused on the commercial aspects almost from day one, ensuring that they could produce a low-purity material in order to take advantage of the growth of the solar panel market and now already making contact with potential end-users. An experienced management team, access to finance and proof of concept with a much lower capex estimate. HPQ is definitely one to watch.