ENGLISH OVERVIEW

TNP Newsletter

2018/6/22

198th Business Plan Presentations Held on June 12, 2018 at Iwasaki Gakuen, Shin-Yokohama, Japan

1. Plant Life Systems Co.,Ltd. President Mr. Takayuki Matsuoka http://plantlife.jp/(Japanese)

Established in October 2014 Capital stock：USD＄ 4,090,000

Plant Life Systems Co., Ltd. makes algorithms for biological organisms. It also develops and sells systems applying artificial intelligence (AI) to help growers heighten their efficiency. This fiscal year, it is targeting a five-fold increase in productivity for cantaloupe as a new crop handled and is engaging in basic development for tea and mangoes. It promotes the introduction of its systems while modifying its approach as appropriate, through different business models for four main types of targets (new farmers, additions to existing business, new businesses, and existing farmers). As for future agenda, it intends to fuse its systems with the distribution industry, and is also aiming for exit digitization.

【Re-Cap】 To improve crop quality and increase the harvested quantity of value-added crops requires AI and technology that will allow achievement of both of these ends. In addition, the company uses alkaline culture media, which have not been suitable for the growth of whole plants so far, and applies a rigorous method of water control using AI. By these means, it has become possible to initiate a new revolution in agriculture, which has not been amenable to dramatic change so far.

2. C&V Technix Co.,Ltd. President Mr. Katsumi Ukai http://www.c-vtechnix.com/(Japanese)

Established in June 2012 Capital stock：USD＄ 10,000

Founded in June 2012., C&V Technix Co., Ltd. consists of a team of engineers that breeds creation and value. At its core is a store of vacuum and analytical technology accumulated over many years by its employees, who have been active for some 30 years in the field of semiconductors and electronic components. It is pursuing visions for its business five and ten years in the future, and aspires to be a company grounded in vacuum and analytical equipment.

It is currently developing business in the following three areas.

1) Analytical equipment Portable IAMS* as the company brand：This portable mass spectroscope is capable of detecting and measuring organic substances, both instantly and on the site. It was developed with support from 2013 governmental provisions for manufacturing subsidies and assistance, and utilizes mass spectroscope technology of the ion attachment type. It features a capability for instantaneous detection of a diversity of substances in the atmosphere, without pretreatment. In recent years, analysis of exhalation gas (breath) has come to the fore as a non-invasive method for disease diagnosis. Portable IAMS is positioned as a non-invasive diagnostic unit for medical use that can meet these needs. The company is taking aim at the global market in its sales, and hopes to make this equipment the de-facto standard for exhalation gas analysis.

* Ion Attachment Mass Spectroscope

2) Vacuum film deposition equipment：This equipment forms thin films of metal etc. by deposition in a vacuum state, and dates from the company's establishment. The company delivered its first equipment of this type to the Technology Research Association for Single Wall Carbon Nanotubes (within the National Institute of Advanced Industrial Science and Technology), in the form of a roll coater enabling continuous formation of high-precision multilayer thin films on copper leaf with a width of 1,000 mm. It is currently pursuing the production of all-solid-state lithium-ion batteries based on this equipment, and is taking aim at the global markets for such secondary batteries and room-temperature superconductivity.

3) Consulting services related to vacuum, plasma, low-temperature, and analysis technology：The company offers services in consultation related to vacuum, low-temperature, and analysis technology. Japan's vacuum equipment industry is about 20 years behind the world standard in the ultra-high vacuum domain. In response, the company is taking the initiative to promote educational and proving activities with a view to pioneering this domain itself.

Meanwhile, activities of education and proving are also required for Portable IAMS, which likewise has a low degree of recognition. For this reason, the company is using this consultation business as footing for promoting the spread of this product.

【Re-Cap】 The company is hoping to eventually enter the field of medical services, which offers prospects for further growth. For the time being, however, it reportedly intends to focus on fields such as exhalation gas analysis and newborn infant health management. It has listing in mind further down the road.

3. Think-Lands Co.,Ltd. President Mr. Kunio Miyaji https://think-lands.co.jp/index_english.html

Established in February 2014 Capital stock：USD＄ 1,145,000

Think-Lands Co., Ltd. is a development-oriented manufacturing venture that was founded in February 2014 and entered its fifth year in 2018. This year, its particular focus is the commercialization of hollow micro-needles produced with optical vortex laser microprocessing technology. It received exclusive implementation rights for the basic patent, application for which was made jointly by Chiba University and Hokkaido University, from these two universities. As application fields, it is considering specifically high-performance skincare cosmetics and use for painless injection in medical treatment, and is taking action toward the goal of practical utilization in each. As for the future, it is aiming first for the introduction of its products into cosmetics markets inside and outside Japan. In this connection, it is planning to conclude several contracts for specific joint research within the next month.

【Re-Cap】 President Miyaji said that he wanted to create a world where there was no need for any patient to feel pain from injections, and no need for related industrial treatment before disposal. He cited three points of advantage as compared to the products of competitors: 1) ease of industrial disposal (bio absorption), 2) ability for injection of the proper dose (hollowing), and 3) really painless injection (diameter of less than 100 micrometers).

4. Nain Inc. President Mr.Kentaro Yamamoto http://www.nain.jp/ja/(Japanese)

Established in November 2014 Capital stock：USD＄ 40,630

Nain Inc. does business in planning, development and sale of hearable products, and consigned development of hearable software. Excessive dependence on smartphones as exemplified by their use even when walking down the street has grown into an issue of concern to society as a whole. The company is determined to resolve this issue with hearable devices, which provide mobile voice assistant services that free the Internet from device screens. As a first step in this direction, it developed products with particularity about an absolute ease of use for voice messaging. In September 2016, it launched sales of APlay, the world's first voice messaging wireless earphone. Thereafter, it procured funds from MCJ Co., Ltd. and Onkyo Corporation, and in April 2018 announced Zeeny, the world's first voice messaging wireless earphone to handle iOS. It is also supporting the development of hearable devices by major Japanese audio companies.

【Re-Cap】 The company's name is an acronym for the watchwords "network AI note." The market for hearable devices is projected to reach about 5 trillion yen in 2020. With its products, customers can select the sound they prefer, which cannot be done with ordinary earphones, and this is presumably another advantage.

《Impressions》 After this meeting, the representatives of the companies that made presentations probed possibilities for collaboration with each other.

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