



Moses Lake Industries – Member Update

NAATBatt 2022

Wyatt Olson | Sr. Program Manager – Battery Materials

TAMA GROUP INTRO



TAMA CHEMICALS CO. LTD (JAPAN)

Established 1949

MOSES LAKE INDUSTRIES

(Moses Lake, WA)

Established 1984

KEMITEK

(Taiwan)

Joint Venture

Established 1997

AGNOS

(Singapore)

Joint Venture

Established 2002

NEPES CORPORATION

(Korea)

Partnership

Established 1997

MOSES LAKE DALIAN CHEMICAL INDUSTRIES

(China)

Established 2008

MOSES LAKE XI'AN CHEMICAL INDUSTRIES

(China)

Established 2012

MLI ADVANCED RESEARCH CENTER

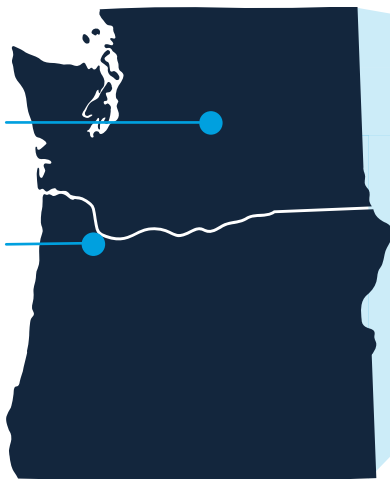
(Portland, OR)

Established 2017

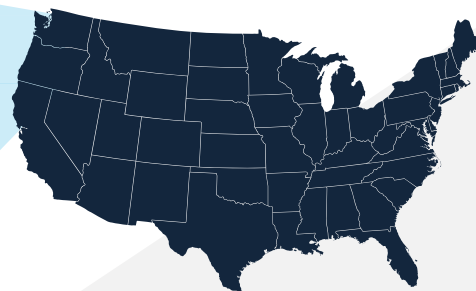
GLOBAL OPERATIONS

MLI US OPERATION

Moses Lake, WA
High Volume
Manufacturing
Portland, OR
Research Center



TAMA GROUP GLOBAL NETWORK



United States of America



Japan

Europe

Korea

Taiwan

China

Singapore

TRADITION OF SUCCESS



A background image of laboratory glassware, including several Erlenmeyer flasks and beakers, some containing liquids, and a metal stand. The image is partially obscured by a blue diagonal graphic element on the left side.

PRODUCT LINES

▼

TMAH BASED DEVELOPERS

METAL PLATING ADDITIVES AND ELECTROLYTES

CUSTOM SPECIALTY CHEMICAL FORMULATIONS

BATTERY MATERIALS

CORE CAPABILITIES

IN-HOUSE INNOVATION



DEEP HISTORY OF ELECTROCHEMICAL AND MATERIALS SCIENCE RESEARCH



ADVANCED POLYMER, ORGANIC, INORGANIC RESEARCH & PRODUCTION

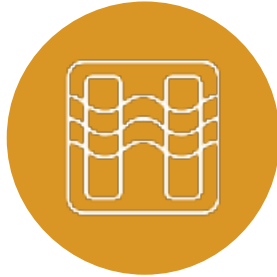


ROBUST SUPPLY CHAIN AND QUALITY CONTROL SYSTEMS



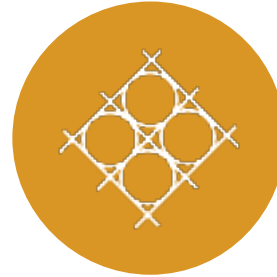
FAST RAMP OF MATERIALS FROM R&D TO PRODUCTION

BATTERY MATERIALS



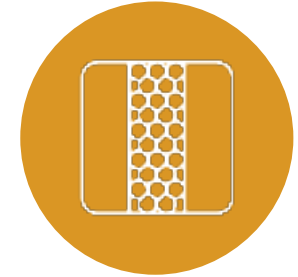
SPECIALTY LIQUID ELECTROLYTE

- US manufacturing
- Robust supply chain management for critical applications
- Flexibility and low minimum volumes for custom blends



POLYMER BINDERS FOR ELECTRODE

- Binders targeted to enable high power and high energy density
 - NMP-free process
- Optimized for customer cell chemistry and manufacturing



CUSTOM PRODUCTS

How can we partner with you to solve your chemical supply chain and technology challenges?

ADDITIONAL PRODUCTS IN EARLY EVALUATION

BATTERY MATERIALS UPDATE

- Established Battery Materials R&D Team in Portland, OR
- Completed Phase 1 of R&D lab at MLI's Advanced Research Center in Portland, OR
 - *Full battery testing lab with advanced materials characterization capabilities*
- Initial prototype binder shows performance equivalent to or better than PVDF in standard configuration cells
- Currently shipping R&D scale liquid electrolyte for customer evaluation and lab use
- Construction underway for pilot and medium volume specialty electrolyte production and raw materials purification





CONTACT US

Wyatt Olson, MBA

Senior Program Manager – Battery Materials

Email: wolson@mlindustries.com

Mobile: 509-431-3487

Angelique Jarry, PhD

Senior Technology Manager – Battery Materials

Email: ajarry@mlindustries.com