

Q4 2014 Firm Update



# Maine Companies Set to Change the World



**Q3 2014 Press Releases**

# Six Maine Companies Set on Changing the World



Foreword by  
Peter Anania

## I cannot count the number of times I have been asked “and you make that here in Maine?”

The fact is, yes we do... Our portfolio companies manufacture world class optical medical devices; high tech “potting soil” originally developed to grow plants in space; antennas and accessories that give cellular telephone carriers twice the bandwidth of fiber; ultra-high vacuum components used in cold fusion research; and advanced Polylactic Acid textiles with infection fighting capabilities. These are just some of the items we are manufacturing or developing, many more are on the drawing board. Read on to learn more...

## Biovation II

Biovation manufactures advanced PLA biopolymer products with infection control formulations at their 20,000 square foot facility in Boothbay Harbor. The company has a large IP portfolio of biodegradable non-woven products meant to fight bacterial infections with applications spanning several industries. Some of the company’s featured products are a blood pressure cuff that keeps infections out of hospitals, a boot insert that dries boots for the military and an environmentally friendly personal hygiene wipe.



## Grow-Tech LLC

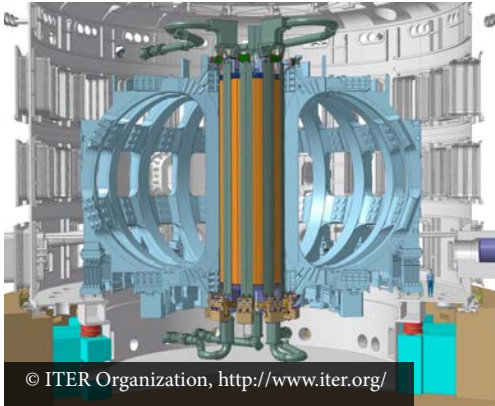
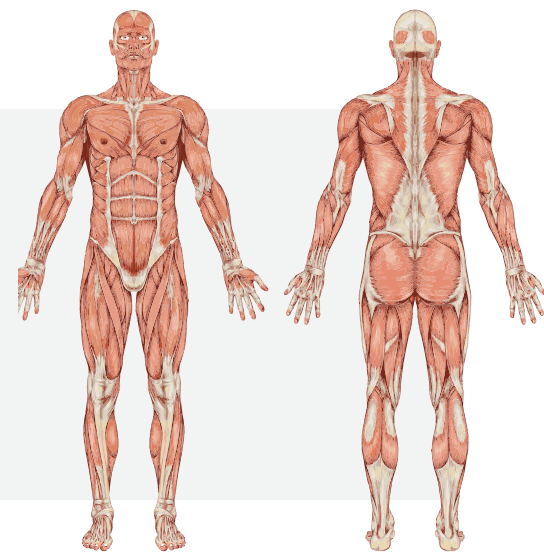
Grow-Tech is an innovator in several expanding markets centered around the future of farming: hydroponic farming, aquaponic farming, green roofs, living walls & agritecture (merging architecture and agriculture). Grow-Tech’s Cellular Rooting Sponge® technology, originally developed for growing plants in space, has numerous applications for new hydroponic systems meant to help solve hunger issues in developing countries, as well as increasing the amount of local produce on dinner tables across North America. A decade ago Grow-Tech saw the need to develop a biodegradable and sustainable growing media. BioStrate™, the result of this foresight, is a fully compostable growing media for the future of farming. Grow-Tech was awarded a Small Business Innovation Grant from the Department of Agriculture to develop Biostrate.





## Lighthouse Imaging

Lighthouse Imaging is putting Windham, Maine on the map for Optical Engineering attracting talented optical engineers from across the nation. Components engineered and manufactured by the Lighthouse team become part of the most advanced surgical devices being deployed in operating rooms worldwide. Recent growth of the ISO 9001/13485 certified and FDA-registered company has led them to expand into a new facility in Windham, ME. The new state-of-the-art facility allows for expansion of the rapidly growing company as well as several "clean rooms" for manufacturing.



## MEGA Industries

MEGA Industries is a leading manufacturer of microwave transmission equipment for particle accelerators, fusion research; and light source research (big bang research). Component's engineered and manufactured by MEGA Industries are an instrumental part of large scale scientific experiments aimed to demonstrate the feasibility of fusion energy as a sustainable energy source. MEGA has recently partnered with ITER-India to provide several "plumbing" and "testing components" for the reactor's power source.

## mWAVE Industries

mWAVE Industries engineers, tests; and manufactures a variety of antennas for the defense, scientific; and telecommunications industries. mWAVE's antennas have found their way on some of the most advanced military communication equipment, unmanned aerial vehicles, and ships; and have been employed in some of the toughest conditions on the planet. mWAVE is currently developing a line of antennas with applications for the "Internet of things", a concept where everyday objects begin communicating with each other over the Internet.



## TrakTec

TrakTec is rethinking the way labels are manufactured. The company is working with leading retailers, distributors and manufacturers to engineer more environmentally friendly labels as well as compressing the traditional supply chain for labels. Ditching the traditional "one size fits all" approach, TrakTec engineers labels to customer specifications by matching a wide inventory of facesheets, adhesives, silicones and liners to the application.



3

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# Press Releases for Q3 2014



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For more information contact:



**Director of Marketing  
Communication**

Peter Anania (Jr)  
media@anania.biz  
[www.linkedin.com/in/  
petervanania/](http://www.linkedin.com/in/petervanania/)  
[@pvanania](https://twitter.com/pvanania)



Innovation  
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Analysis  
Ideas  
Success  
Management

SOCIAL NETWORKING



Sep

Oct

Nov

Dec



# mWAVE Industries LLC Celebrates Ten Years in Business



*mWAVE Industries LLC, an antenna design and manufacturing firm in Windham, Maine, is celebrating its tenth year in business.*

## **mWAVE Industries Ten Years Ago**

mWAVE started as a partnership between three former Gabriel Electronics employees and MEGA Industries, a Gorham manufacturer of high power microwave components used in high energy experiments such as the CERN particle collider.

MEGA Industries provided over two hundred thousand in startup capital, manufacturing space, expertise and equipment to mWAVE. The next couple of years at mWAVE were spent developing antennas and establishing relationships with customers.

## **mWAVE Industries 2008 to Present**

In 2008 mWAVE needed to scale up production, having several large contracts in the pipeline. mWAVE moved to a new manufacturing facility owned by parent company Anania & Associates Investment Company LLC, in Windham, Maine. In 2009 one particularly large contract was finalized, leading to an order of 45,000 antennas for the U.S. Military.

Currently mWAVE is marketing a new line of 80 gigahertz antennas, developed in part with a Maine Technology Institute development award, that are used for telecommunications backhaul. mWAVE is also utilizing their in-house engineering capabilities by pursuing custom antenna work.

## **The Future for mWAVE Industries**

mWAVE is staying on the cutting edge of antenna design by developing a line of “Pico Cell” antennas that will be used in the “Internet of things.” Everyday objects such as soda machines, traffic lights and buildings are being connected through the internet and mWAVE’s pica antennas will provide the bandwidth and connectivity back to the main Pico Cell switch.



# Sen. King Tours Biomanufacturing Company in Boothbay



## FROM THE OFFICE OF SENATOR KING

<http://www.king.senate.gov/newsroom/press-releases/>

**MONHEGAN, ME** – Today U.S. Senator Angus King (I-Maine) visited Biovation, a biomanufacturing company in Boothbay that produces innovative products for the Department of Defense, consumer and institutional protection, niche packing, and healthcare markets. Senator King toured ongoing research and development projects at the facility with President and Chairman of the Board Peter Anania and CEO Kerem Durdag, and spoke with employees working on those projects.

“Biovation’s commitment to finding solutions for their industry and institutional partners is admirable, and their potential for growth is astounding,” said Senator King. “It was a privilege to tour the facility today, meet the impressive employees, discuss future manufacturing plans, and see the exciting projects that the folks at Biovation have in the works.”

Biovation manufactures biodegradable, bio-compostable non-woven fiber based with antimicrobial, antibacterial coatings used for infection and pathogen control. The company continues to expand its focus through research and development, and emphasizes the use of green, biodegradable sources. One of Biovation’s current projects is the development of a bio-based boot dryer for the U.S. Marine Corps.

Senator King introduced the Regulatory Improvement Act of 2013 with Senator Roy Blunt (R-MO.), a bill that would help provide a more predictable regulatory environment and allow innovative companies like Biovation to grow. King is also a cosponsor of the Helping Angels Lead Our Startups (HALOS) Act, which would provide growing businesses the freedom and access to capital they need by lifting burdensome regulations on investors.

# Grow-Tech LLC Launches New Responsive Website



**Grow-Tech LLC, a South Portland based manufacturer of stabilized growing media, launches a new responsive website to spread the word of their Cellular Rooting Sponge® technology.**

## Grow-Tech's Growing Markets

The new website highlights the applications of Grow-Tech's "soil-less growing media" across several of their fastest growing markets: hydroponics, aquaponics, living walls & agritecture. A "grower resource blog" on the site also provides valuable information for individuals thinking about starting an aquaponic or hydroponic farm.

Jamie Chittum, Director of Business Development comments on the new website, "A new hydroponic or aquaponic farm seems to be cropping up almost every day in North America. Our line of growing media is perfect for these types of farms. The new website gives us better visibility on the internet allowing us to reach these farmers."

Managing Director, Edwin Dijkshoorn comments on other features of the website: "Viewing the analytics of the website we realized a large portion of our customers were using smart phones to visit the website and that the new website needed to respond to a variety of devices. This responsive aspect of the site also creates a better experience for growers researching our products on a smart phone while working in their greenhouse."

## More Information about Grow-Tech

Grow-Tech, which is a portfolio company of Anania & Associates Investment Company LLC based in Windham, Maine, has a 30, 000 square foot facility in South Portland, Maine as well as a European sales office in the Netherlands. The company has three major products lines: FlexiPlugs®, FlexiTrays® and FlexiLine® Machinery.



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# Mega Acquires Legacy Waveguide Dummy Load Product Line



**MEGA Industries, a Gorham based manufacturer of microwave transmission components used in fusion research labs around the world, announces acquisition of the Waveguide Dummy Load product line from Microlab / FXR.**

## **About the Waveguide Dummy Load Product Line**

Waveguide dummy loads are widely used in military systems such as radar to absorb excess heat generated by the system. CEO, Peter Matthews comments that the acquisition is “Good news for the end user” and that the capabilities of MEGA Industries, “Can now be applied to system dummy load requirements in the L, S, C and X-Band as well as Ku, K, and all the way to Ka-Band. This extension beyond our capabilities of X-Band to approach 40Ghz is a significant step and leverages our significant expertise in RF design.”

Peter V. Anania, President and Chairman of Anania & Associates Investment Company, an investment firm which owns MEGA Industries, comments on the acquisition,

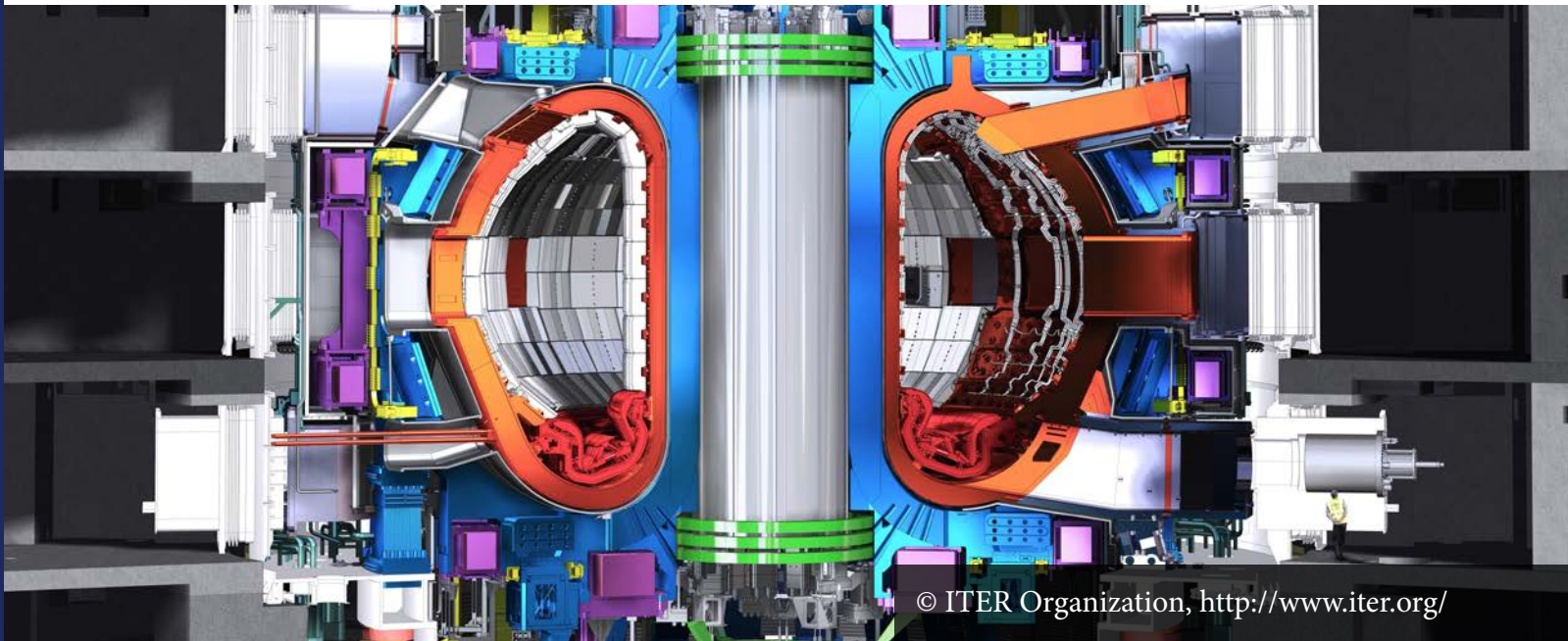
“The acquisition of this waveguide dummy load product line compliments MEGA Industries’ current research & development into various types of loads and higher frequency components.”

## **More Information on MEGA Industries**

MEGA Industries engineers and manufactures components for particle accelerators, fusion research, the military and aviation high energy. The company is located in Gorham in a state-of-the-art 40,000 square foot manufacturing facility.



# MEGA Industries Receives \$1.2 Million Contract with ITER-India



**MEGA Industries receives \$1.2 million in contracts with ITER-India for manufacturing test equipment and coaxial components for ITER fusion reactor.**

## About ITER Fusion Reactor

ITER, meaning “the way” in Latin, is being constructed in Cadarache, France and will be the world’s largest fusion reactor. The research, development and management of the project is the result of collaboration between several partner countries: the United States, the European Union, India, Japan, the Republic of Korea, the Russian Federation and China. The project seeks to develop a safe and sustainable alternative source of energy to meet global demand.

## Further Details on the Contract

The contract with ITER-India has two phases with the development of the coaxial components happening first and testing equipment second. The coaxial components serve as the “plumbing” system for the power source of the reactor. The testing equipment developed by MEGA Industries will test the power source components to see if they are able to work at various power levels and operating frequencies.

## More Information on MEGA Industries

MEGA Industries, a portfolio company of Anania & Associates Investment Company LLC, engineers and manufactures components for particle accelerators, fusion research, the military and aviation high energy. The company is located in Gorham in a state-of-the-art 40,000 square foot manufacturing facility.



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