

LATCHTOOL

FastFlow® within — Fluid Power without the complications.

FastFlow® within—Technology, Faith & Synchronicity

Colorado Springs, CO - March, 2011 – LatchTool Group announces the formation of *FastFlow® Syndicate* a consortium of entrepreneurial scientists and engineers pioneering the discovery of *FastFlow® fluidic* Flow Control enabled *microhydraulics*. These discoveries are a breakthrough in **power density** delivering more “*pounce per ounce*”ⁱ than imagined possible.

LTG began developing embedded hydraulics in the mid-1990s. Along the way, Myron Tupper and Bill Gallentine **discovered**¹ a **fluidic valve** integral to a *new way* to design compact hydraulic circuits. Adding motorized drives took the technology from a device that gives a grandmother *the grip of Godzilla™* to standalone *PowerCylinders™* that deliver tons of force. With the addition of sensors and MEMS the technology is a portent of the bionic man and new business models for supplying benefits without the headaches of ownership.

FastFlow® Microhydraulics adds fluid power to the mechatronic mix to create *disruptive* technology that topples barriers to market entries and ushers in new waves of dominant designs. Tasks become easier, quicker and cheaper because of smaller, lighter and simpler devices.

FastFlow® Syndicate crosses the power of **OPEN Innovation**² with the **Game Theory** mindset of **Coopetition** to radically accelerate the adoption and diffusion of game changing technology. The aim is to vest members with a **unique advantage** as they compete for funding and profits in the global marketplace.

LTG is for this time: Manufacturing & Technology News recently reported that during a period where two high-rise buildings were constructed in Los Angeles, 5,000 were built in Shanghai. As intellectual property rights come under attack—patents, trademarks and trade secrets—the ability to offset low labor costs with productivity gains diminish. In geopolitics, without a technological edge prosperity falters.

Technology and Faith³ go hand-in-hand. Capitalism, as well as today’s Tea Party Movement, unknowingly depends on **spontaneous order**⁴. It is why birds flock, why the decisions of many trump a command and control economy and why a free America is exceptional. That Adam Smith published on this phenomenon in 1776 is incredible. Spontaneous order is what’s behind a Starfish organization⁵—the unstoppable power of a leaderless movement united by a common cause. It is the operational model for LTG. *FastFlow® Syndicate* vests members with the IP to empower companies to build products that the world wants.

Alliances with *component parts* and *short-run* manufacturers become the production and assembly plants for multi-ton platforms for end-use marketers. Similar efforts will launch around the PowerPliers platform, which lead to servo-modulated walking assists and exoskeletal frames; and tiny remote workholding modules for the fabrication of large *hard to reach* assemblies—especially in hostile environments. This workholding platform⁶ also can be engineered as a boost for gearmotors.

FastFlow® Syndicate

“We are twice armed if we fight with faith” Plato ca390BC

ⁱ “Pounce per ounce™” is the alliteration for thrust in pounds-force per unit weight (or volume) of the delivering system—a measure of power density.

¹ <http://latchtool.com/restricted/Tech%20Intro.pdf>

² <http://www.google.com/search?q=f&sourceid=chrome&ie=UTF-8&q=open+innovation>

³ **Technology and Faith** – Billy Graham at a TED conference, or http://www.ted.com/talks/billy_graham_on_technology_faith_and_suffering.html?notice=Thanks%21+You+have+successfully+subscribed+to+TED%27s+weekly+newsletter.

⁴ **Spontaneous Order/Synchronicity** – references, or <http://latchtool.com/restricted/Synchronicity.pdf>

⁵ **The Starfish and the Spider** - a 2006 book by Ori Brafman, or http://en.wikipedia.org/wiki/The_Starfish_and_the_Spider

⁶ **Workholding module**—**Rare Earth Elements: strategic issue**.

⁷ **FastFlow® Syndicate**, or <http://latchtool.com/restricted/FFSynd.pdf>