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**Accelerated Systems Inc. Introduces their New Line of  
BAC™ Electric Motor Controllers at the Taipei Cycle Show 2012**

*Taipei, Taiwan March 7, 2012* – Accelerated Systems Inc. (ASi) will present our wide range of customizable electric motor controllers at the Taipei Cycle Show, March 7 – 9, at the Outdoor Exhibit Area (*Booth #028*) of the Taipei World Trade Centre, Nangang Exhibition Hall in Taipei, Taiwan. Electric bicycles equipped with our new BAC controllers will also be available for test rides at the ExtraEnergy Test Track (*Booth # 12017*).

“We are thrilled to introduce our new BAC motor controllers at the Taipei Cycle Show during this pivotal time for the light electric vehicle market. “ says Rob Lankin, CEO. “We are seeing consumers become more aware of these emerging electric-powered products, and the more aware they become, the more discerning they become. They are demanding higher quality products, which is good news for us as a company, since we are in a great position to help supply them.”

The BAC family of controllers are high-power density controllers that utilize the latest in field oriented control to ensure smooth, quiet, brushless DC motor operation and efficient vehicle operation. The most important feature of these controllers is that they are programmable through an optional display or PC connection. This means the units can accommodate a wide variety of electric vehicle configurations. Designed for the rigorous demands of the bike industry, the BAC family of motor controllers is also suitable for other light electric vehicle applications including scooters, ATVs and UTVs.

“After successfully working with some key electric vehicle manufacturers, we realized it was time to officially introduce ourselves to this industry,” says Lankin, “and what better place to do this than at the Taipei Cycle Show? Our goal is to meet with manufacturers, OEMs, brand managers, dealers and consumers, learn as much as we can from them and then tell them how we can help them.”

With over 15 years of experience designing and manufacturing electric motor controllers, ASi is well-known for high quality products. Currently selling to partners across Europe and China, ASi is now looking to expand its presence in the light electric vehicle market.

## **Technology – How does it work?**

The new and improved BAC line of motor controllers feature advanced flux vector control software and versatile configuration options to provide an excellent riding experience. The software allows the controller to constantly measure information from the motor and make small adjustments for smoother, quieter, and more efficient operation. And the versatile configuration options support the use of many standard throttle and pedelec input devices in speed and/or torque modes. Adjustable parameters for each device allow the ride to be tailored from smooth to aggressive, without transition spurts and noises common to other controllers.

## **Company – Who are we?**

Accelerated Systems Inc. (ASI), headquartered in Waterloo, Ontario, has more than twenty years of experience developing advanced drive systems for electric vehicles. ASI creates intelligent (software supported) drivetrain solutions for battery electric and hybrid vehicles. Our unique focus on non-automotive vehicle applications is helping our customers capitalize on the same opportunities the car companies are realizing for fuel efficiency and environmental benefits. Our products and services help vehicle manufacturers innovate improvements to vehicle features, drivability, and performance quickly.

### **- What do we do?**

We also help our clients transition those new features to volume production without risk. Our products are underpinned by our proprietary technology for power dense motors and motor controllers, packaged into compact and modular hub, traction, or accessory drive modules. These modules are coordinated, along with battery management and engine control features, through a distributed network control system which is specifically optimized to achieve the best possible vehicle performance and operating range. This modular approach means that our customers realize the performance advantages of a highly optimized and custom solution on a mass produced cost structure, so that our solutions are being deployed in volume consumer applications such as electric bicycles and scooters, ATVs, UTVs and residential riding lawn mowers.

## **Products – What do we manufacture?**

- **ASI BAC 500**
- **ASI BAC 1000**
- **ASI BAC 2000ind**
- **ASI BAC 3000**

Our products cover all types of motors available for electric vehicle markets including AC, Brushless DC, Separately Excited, Permanent Magnet and Series. These products come in all the necessary voltage ranges from 12V to 96V and all power ranges from 30A to 1000A. With current and thermal limiting of motor and control element sections, automotive quality Molex™ connectors, and a rugged, highly ingress resistant case, the BAC line of controllers are fully protected. They support Hall Effect and resistive throttle/brake types. BAC controllers have a ModBus interface over either RS-485 or RS-232 (standard and TTL) and can be used in either standalone or as a slave module in networked configurations.

The ModBus (CAN for the BAC 2000ind) network provides access to status and diagnostic information such as controller status, battery voltage, motor currents and motor/controller temperatures to ensure safe vehicle operation. Additionally, fault codes reported via the status LED makes troubleshooting a breeze.

**Website**

[www.accelerated-systems.com](http://www.accelerated-systems.com)