



## **7th Annual LTS Conference Sept. 12-14, 2003**

### **“I Had Fuel-ish Thoughts in Lindernapolis”**

This will be a fuel injection conference that you won't want to miss! Join Randy Bernklau, Jonathan Riggle, Mark Warren, Craig VanBatenburg, John Thornton, Dick Baumgardt, David Hobbs along with our own "Injector Wizard", Doug Garriott, and the "Injector Guru", Jim Linder, as they discuss such topics as:

- ↓ Short term vs. Long term Fuel Trim
- ↓ Downstream fuel control influences
- ↓ Relationship between injector pulse width and fuel trim
- ↓ 5 gas
- ↓ 101 Fuelish Tips
- ↓ OBDII and FTP
- ↓ GM Ion Sense & Saturn Compression Sensed Ignition
- ↓ Knock Sensor technology w/ regards to fuel octane
- ↓ Cam phasing, PCM & fan clutch on GM 4200 engines
- ↓ Honda fuel injection systems
- ↓ Returnless fuel systems
- ↓ Multiple speed fuel pumps

Don't miss this opportunity for an exciting weekend of training. Seats are limited, so sign up today!

**Deadline to Register:  
August 31, 2003!**



# REGISTRATION:



You can register any one of three ways:

1. **Mail:** Linder Technical Services  
4-D Gasoline Alley  
Indianapolis, IN 46222  
(fill out form and send to the above address)

2. **Fax:** (317) 487-1868  
(fill out form and fax to the above fax #)

3. **On-line:** [www.lindertech.com](http://www.lindertech.com)  
(go to the website above and go to conference button)

**Technician Fee: .....\$279.00 (If registered by August 31)**

**Late Registration Fee: \$349.00 (After August 31)**

### Method of payment:

Invoice

Check

Credit Card: # \_\_\_\_\_

Exp. Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Attendee(s) Name:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Phone #: Days \_\_\_\_\_ Eve. \_\_\_\_\_ Fax: \_\_\_\_\_

*There will be no management classes offered this year.\*\**

## HOTEL INFORMATION:

This year classes will NOT be held at the hotel, but at a training center just a few miles away. Buses and vans will be provided to transport you to classes each day. We have a block of rooms reserved at 3 nearby hotels which all share the same parking lot. Please call to make your reservations before August 31 to guarantee price and availability. Make sure to mention you are with the LTS Conference to get the special rates.

**Sleep Inn West:** \$49/night plus tax 317-247-4100

**Comfort Inn West:** \$69/night plus tax 317-487-9800

**Wingate Inn West:** \$79/night plus tax 317-243-8310

## Tech Training: Service Information

Here's an interesting service bulletin taken from the GM website: <http://service.gm.com>

Bulletin#: 03-06-03-001 (Starter Cranks After Key is Released on Cold Start)

Vehicles effected:

2003 Chevrolet Silverado, Suburban, Tahoe,  
GMC Sierra, Yukon, Yukon XL

Engine: 5.3L (VIN Z)

Some customers may comment that the engine starter will continue to run after the key is released.

For the 2003 model year, the PCM controls the starter relay based on input from the key switch. When the ignition switch is held in the start position for 0.4 seconds, the PCM starter timer is activated. Once the start timer is activated, the PCM will continue to crank the starter until either the engine starts or a no start time limit is reached.

The L59 engine uses a specific fuel pump module in order to be compatible with E85 fuel. Occasionally, the fuel pump module will take one or two seconds to build fuel pressure. Most often this will occur after the vehicle sits overnight. Due to the extra time required to build fuel pressure, the customer may release the ignition switch key before the engine actually starts. The engine will then continue to crank until the engine starts or the start time limit is reached. This may be referred to as a ghost crank.

This is a normal condition and no repairs should be attempted for this condition.

# LINDER TECHNICAL SERVICES

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*out of the (317) area code only*



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1. Technician section: **NO FEE** to register! You will receive email notifications based on your personal settings every time an instructor adds a course to the database.
2. Instructor/Training Company Section: used by training companies and independent instructors to add their courses, dates, times, location and descriptions.
3. Request for Instructor: Parts and Tool manufacturers or other companies can fill out a form requesting an instructor or training company to deliver or develop a specific training course.
4. Training Product: Companies which provide training-related products for instructors or technicians (manuals, cd-roms, AV equipment, etc.) may add their products to the searchable database.