

Fundamentals of Explosives at URI; Apr 29 - May 1, 2014

Tuesday, April 29, 2014 URI Student Union – Senate Chambers (300)

8:30 *Registration & Continental Breakfast*

9:00 **Basic Principles** – Dr. Jimmie Oxley
burning and detonation, explosive trains, history

10:15 *Break*

10:30 **Chemistry of Military Explosives** - Oxley
explosophors, explosive formulations, preparations, safety

Noon *Lunch on your own*

1:00 **Shock Waves in Solids** – Dr. James Kennedy
shock formation, mechanics, interactions, phenomena

2:30 *Break*

3:00 **Forensics** --Marshall

5:00 *Adjourn for the day*

6:30 *Dinner Spain's of Narragansett (1144 Ocean Rd, Narragansett, RI 02882)*

Wednesday, April 30, 2014 URI Student Union – Senate Chambers (300)

8:30 *Continental Breakfast*

9:00 **Detonation & Initiation** – Kennedy
detonation theories, detonation phenomena,
shock initiation of HE, hot spots, combustion, DDT

10:30 *Break*

10:45 DDT (cont)

Noon *Lunch on your own*

1:00 **Hazards** – Dr. Blaine Asay
Hazards & protocols of working with explosives

2:30 *Break*

2:45 Hazards (cont'd) – Asay

5:00 *Adjourn for the day*

Thursday, May 1, 2014 URI Student Union— Senate Chambers (300)

8:30 *Continental Breakfast*

9:00 **Explosive Output: Modeling & Calculations** - Kennedy
Output measures and Gurney model for driving metal; codes

10:00 *Break*

10:15 **Explosive Devices** - Kennedy
Detonators, low-explosive devices, shaped charges, linear explosives
11:30 **Shock & Detonation Physics** – Dr. Maurice Marshall
explosive performance and output by hand

12:30 *Lunch on your own*

1:30 **Detection of Explosives** - Oxley

2:30 *Break*

2:45 **Lab Tour**

4:00 *Class adjourns*