

Fundamentals of Explosives at URI; May 2-4, 2017

Tuesday, May 2, 2017 URI Student Union-Ballroom

8:30 AM *Registration & Coffee*

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

2:30 *Break*

2:45 **Detonation & Initiation** – Kennedy
detonation theories, detonation phenomena,
shock initiation of HE, hot spots, combustion, DDT

5:00 *Adjourn for the day*

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

Wednesday, May 3, 2017 URI Student Union- Ballroom

8:30 AM *Coffee*

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

10:00 *Break*

10:15 **Homemade Explosives & Peroxides**--Oxley

Noon *Lunch on your own*

1:00 PM **Explosive Devices** - Kennedy
Detonators, low-explosive devices, shaped charges, linear explosives

2:30 *Break*

2:45 **Shock & Detonation Physics** – Dr. Maurice Marshall
explosive performance and output by hand

3:45 **Forensics** --Marshall

5:00 *Adjourn for the day*

Fundamentals of Explosives at URI May 2-4, 2017 (cont)

Thursday, May 4, 2017 URI Student Union- Ballroom

8:30 AM *Coffee*

9:00 AM **Hazards** – Dr. Blaine Asay
Hazards & protocols of working with explosives

10:30 *Break*

10:45 Hazards (cont'd) – Asay

Noon *Lunch on your own*

1:00 PM Hazards (cont'd) --Asay

2:00 PM **Detection of Explosives** - Oxley

3:00 **Lab Tour**

4:00 *Class adjourns*