

# JOINT URBAN OPERATIONS

**September 26-28, 2007**

**Advanced Technology and  
Concepts for the Urban Warfighter**

**Georgetown University Conference Center & Hotel • Washington, DC**



## **Gain an understanding of:**

- Lessons learned in recent operations
- Ongoing challenges in Urban Operations
- Training and simulation for MOUT
- Developing doctrine and policy for Urban Operations
- Requirements for new platforms, systems and technologies

Look inside for details...

**Hear from top Urban Operations  
experts from the Joint Urban Operations  
Office, USJFCOM, the Marine Corps  
Warfighting Laboratory and others!**



[www.idga.org/us/urbanops](http://www.idga.org/us/urbanops)

Sponsor



Media Partners



IDGA Alert



Defense Daily



STARS & STRIPES  
Your Hometown Newspaper

# JOINT URBAN OPERATIONS



Dear Colleague,

Operating in the urban terrain presents many serious challenges for the military. The large, densely-concentrated civilian population poses a significant problem for the soldier and puts many more lives at risk. Today's conflicts are fought under intense media scrutiny and governments are enormously sensitive to the loss of any civilian life during operations. Additional challenges include operating in narrow streets and inside buildings, interrupted communication, portability of weaponry and equipment, and air power effectiveness.

IDGA has recognized the need to bring together the MOUT community to explore the constant, complex issues surrounding Urban Operations.

## Primary Areas of Focus will include:

- Identifying the Greatest Challenges in Urban Operations
- Urban Robotics Systems
- Requirements for New Platforms, Systems and Technologies
- Unmanned Systems for Urban Terrain
- Training and Simulation for MOUT
- Lessons Learned in Recent Operations
- Unique Weaponry for the Urban Battlefield

From night vision devices and GPS systems to weaponry and training and simulation, IDGA's Joint Urban Operations conference will cover what you need to know.

**So act now! Reserve your place among your peers and the key leaders in the UO community. Register yourself and a team of people today by calling 800.882.8684 or visiting IDGA's JUO web site at [www.idga.org/us/urbanops](http://www.idga.org/us/urbanops). Remember to inquire about team discounts.**

I look forward to meeting you in September!

V/R,

*Sarah Wickens*

Sarah Wickens  
Conference Director  
[Sarah.Wickens@idga.org](mailto:Sarah.Wickens@idga.org)

*P.S. Don't forget to sign up for the Pre-Conference Tech. Demo Day!*

## Who Will Attend?

Attend JUO 2007 to interact and network with representatives from all related military units / organizations, government agencies, manufacturers / contractors, and technology service providers.

Attendees will include Program Managers and Project Managers, Branch Heads, Project Leads, Chiefs, Commanders, Scientists and Engineers with the following responsibilities:

- **Plans and Policy**
- **Design and Manufacturing**
- **Training and Resources**
- **Systems Integration**
- **Research & Development**
- **Systems Engineering**
- **Test and Evaluation**

## Here's what people are saying about IDGA conferences:

*"Great conference, good selection of speakers, very well organized. Would definitely attend another IDGA conference"*

– Kim Cooper, Senior Engineer, IIT Research

*"Good balance of subject matter: policy, implementation and implications (Lessons learned). Good briefers with relevant experiences."*

– Gary Goodrich, Principal Systems Engineer, LMCO

# URBAN OPERATIONS TECHNOLOGY DEMONSTRATION DAY

Wednesday September 26th, 2007

**Give more time to the issues that matter most.** Sign up for the pre-conference master-class series and dedicate more time to dialogue and networking in a classroom environment.

**8:00 AM – 11:00 AM**

*Breakfast will be served*

**Hands-On  
Demonstration**

## Military Operations in Urban Terrain (MOUT): Breaching Technology for the Warfighter

The Warfighter requires the latest technology for MOUT missions, especially in Close Quarters Breaching (CQB) because of current and future conflicts and the ever changing enemy threat. Existing DoD equipment requires significant training, logistic issues, and field preparation in order to create breaching tools. Changes in tactics as well as extended mission assignments have changed the requirements of breaching equipment from field expedient charges to integrated assemblies. In line with these changes, breaching tools have become more modular, tailored, and quickly deployable. They also have low net explosives and system weights to meet the needs of the Warfighter. Ensign-Bickford Aerospace and Defense Company (EBA&D) is a major supplier of demolition and breaching equipment to the DoD and other agencies. Development of new equipment tailored to the needs of the Warfighter is central to design. This model has created tools that fulfill the needs of safety, reliability, short set-up times, reduced time on target, and positive results.

EBA&D is under contract to field and produce the Rapid Wall Breacher Kit (RWBK) for the USAES in response to light and medium wall breaching targets. Likewise EBA&D produces a full range of close quarters breaching equipment to support such programs as Land Warrior and FCS.

### Attendees of this Master-Class will analyze:

- Existing and future products
  - Technical literature, view video clips of live fire tests
  - Displayed NDI/COTS explosive breaching equipment
- Attendees will also learn about products that can address stand-off door and wall breaching needs, and will be given the opportunity to comment or suggest where industry development of new products should be centered.

**This session will be led by: Mr. Peter McGuinness, Business Development Manger for Military Demolitions, Ensign-Bickford Aerospace and Defense**

**11:15 AM – 1:15 PM**

*Lunch will be served*

**Hands-On  
Demonstration**

## Improved Situational Awareness in MOUT with Color Night Vision

Traditional night vision equipment (I2 as well as thermal IR) produce monochrome (gray or green) imagery that is based only on brightness differences. In comparison, cameras that produce color imagery can display spectral differences in addition to brightness and thus enable increased contrast and information content. In DoD studies color imagery has proven to enable better situational awareness, faster response time, and more accurate target identification.

The human brain is accustomed to color and processes the information more effectively. Urban combat environments, where rapid situational awareness is vital, and marine operations where there is information in the color of markings and lights, are example applications that can benefit from True-Color Night Vision technology. The demonstration and talk cover the generation of true color imagery at night using

enhanced I2CMOS technology. The imagery utilizes visible light for the color information, as well as near IR radiation to (1) increase the signal and (2) enable the viewing of laser aiming devices.

### Attendees of this Master-Class will analyze:

- Objective criteria for assessing color utility & improvements; comparison to monochrome imagery
- Power, weight and size considerations/tradeoffs for different night color technologies
- Color rendering of thermal infrared imagery

**This session will be led by: Nahum Gat, Ph.D., PE, President, Opto-Knowledge Systems, Inc. Jason Kriesel, Ph.D., Staff Scientist, Opto-Knowledge Systems, Inc**

**1:30 PM – 3:30 PM**

*Refreshments will be served*

## Simulating the Urban Fight: Support to Urban Operations Training

The civilian population's actions and reactions in a particular Area of Operations are increasingly more important to commanders at every level, both joint and service. Commanders and their staffs must pay attention to major population groups' concerns such as security, quality of life, and religious issues, in training just as they must in real life. They must consider the consequences of coalition force activities and their effects on the local civilians. These factors can be more important to the commander in an insurgency/asymmetric operations than the already established and understood war fighting areas that commanders know well. The commanders who understand the complexity of this have a significantly better chance of succeeding in today's environment.

The Joint Non-Kinetic Effects Model (JNEM) was designed and built to give commanders and their staff a tool to train for this environment. JNEM is an independent federate in the JLCCTC (Joint Land Component Constructive Training Capability) Multi-Resolution Federation. Also supporting the Urban Fight, The Army TRADOC Project Office for Gaming and USMC is

developing gaming technology to train urban operations in an effort to maximize training opportunities and increase cost effectiveness.

### Attendees of this Master-Class will analyze:

- How to best train for Counter Insurgency and Asymmetric Warfare
- The benefits of gaming technologies in training effectiveness
- Applicability to Leader Development
- Attendees will also view Situational Training Vignettes depicting employment of SNAP Traffic Control Points and Escalation of Force procedures.

**JNEM presentations will be led by: Mr. Tim Metivier, Deputy Director Constructive Directorate, National Simulation Center, Fort Leavenworth**

**Gaming presentations will be led by: Mr. Rob Bowen TPO Gaming, National Simulation Center, Fort Leavenworth & Mr. Donald Mathes USMC**

**Overseeing the session: Colonel Kevin McClung, Director, National Simulation Center, Fort Leavenworth**

# MAIN CONFERENCE DAY 1

Thursday September 27, 2007

- 7:45 **CONTINENTAL BREAKFAST & REGISTRATION**
- 8:30 **Welcome and Opening Remarks by Chairperson**
- KEYNOTE** 8:45 **Keynote Address: Joint Urban Operations Initiatives at USJFCOM**  
Mr. Dave Ozolek, Executive Director, Joint Urban Operations Program; Deputy Director, J-9 USJFCOM
- 9:30 **US Urban Operations: Meeting the Urban Challenge**
  - Redefining Insurgency
  - Lessons from the Solomon Islands and Philippines
  - The US as a coalition partnerDr. Russell Glenn, Senior Analyst, RAND Corporation
- 10:15 **MORNING REFRESHMENT BREAK**
- 11:00 **Urban "Sense Through The Wall" Technologies**
  - Enabling Technologies and Challenges
  - Current Program Status
  - Forward-Looking RequirementsMartin Kruger, ISR Thrust Area Manager, Expeditionary Warfare and Combating Terrorism Department, Office of Naval Research
- 11:45 **DARPA Update: Heterogeneous Urban RSTA Team (HURT)**
  - Current Status
  - System Evolution
  - Forward-looking requirementsDr. Michael Pagels, HURT Program Manager, Information Exploitation Office, Defense Advanced Research Projects Agency (DARPA)
- 12:30 **LUNCHEON**
- 1:30 **Panel Session: How can US Forces best prepare for the next urban fight?**  
Mr. Duane Schattle, Director, Joint Urban Operations Office  
Dr. Russ Glenn, Senior Analyst, RAND
- 2:15 **ERDC Socio-Cultural Research Support for Urban Operations**
  - Rethinking the "Urban Triad," putting PEOPLE back in the UO picture
  - Knowledge is power--social science methods for "leveling" the playing field
  - Socio-cultural analysis for decision support systems
  - Fusing socio-cultural, temporal and spatial information into knowledge for urban operationsDr. Dawn A. Morrison, Geographer, USACE ERDC-CERL
- 3:00 **AFTERNOON REFRESHMENT BREAK**
- 3:30 **PRISTA Operations with the Voyeur VTOL UAV Platform**
  - Unique challenges faced by UAVs in Urban Mission Spaces
  - Filling the gap: Voyeur UAV Overview
  - Voyeur UAV current/proposed projects in processJon Maynell, Program Manager, Lite Machines Corporation  
Paul Arlton, President, Lite Machines Corporation
- 4:15 **Marine Corps Air Ground Task Force Training Command Update**
  - USMC Pre-Deployment Training
  - Combined Arms MOUT
  - Mojave Viper Program UpdateBrian Catlin, G-3, MAGTF/CACAGC
- 5:00 **END OF DAY 1**

# MAIN CONFERENCE DAY 2

Friday September 28, 2007

- 7:45 **CONTINENTAL BREAKFAST & REGISTRATION**
- 8:30 **Welcome and Opening Remarks by Chairperson**
- KEYNOTE** 8:45 **Keynote Address: DARPA Perspective on Technologies to Address the Urban Warfare Challenge**
  - Urban Warfighter Support through C3ISR
  - Urban Operations Weaponry
  - Asymmetric Warfare Countermeasures
  - Pre- and Post-Conflict Capabilities ModelingDr. Robert Leheny, Deputy Director, DARPA
- 9:30 **US Urban Operations: Assessing the Training Capability Gaps**
  - Future Urban Training Centers: What Should They Look Like?
  - Urban Training Lessons Learned Over the Last 5 Years
  - Urban Operations Training at the Brigade Combat Team and Regimental Combat LevelMr. Jay Reist, Deputy Director, Joint Training and Lessons Learned, Joint Urban Operations Office, USJFCOM
- 10:15 **MORNING REFRESHMENT BREAK**
- 11:00 **The Role of the Helicopter in Urban Operations**
  - USMC Combat Aviation
  - Air Command and Control
  - Logistics in the Urban EnvironmentColonel David Mollahan, Former Commander, Marine Aircraft Group, USMC
- 11:45 **Small Arms Protection for the Urban Warfighter**
  - Confusion of the Urban Fight: Where is the Shooter?
  - An Overview of Acoustic Shot Detection Technology
  - Protecting the Urban WarfighterMark J. Sherman, Vice President & General Manager, Omega Division, BBN Technologies Corp.
- 12:30 **LUNCHEON**
- 1:30 **Marine Corps Update: Urban Technology Requirements**
  - OIF/OEF Technology Assessment
  - Current & Future Technology & Capability Requirements
  - Key Findings from Recent Urban Experiments: Urban Warrior, Project Metropolis, Combat HunterColonel (Ret.) James Lasswell, Technical Director & Head, Office of Science and Technology Integration, Marine Corps Warfighting Laboratory
- 2:15 **Urban Intelligence, Surveillance, and Reconnaissance Challenges**
  - Advanced analysis
  - Persistent Intelligence, Surveillance, and Reconnaissance
  - Human Intelligence in the Urban EnvironmentBrigadier General (US Army, Retired) Wayne Michael Hall, Senior Intelligence Advisor, Joint Urban Operations Office, USJFCOM
- 3:00 **AFTERNOON REFRESHMENT BREAK**
- 3:30 **Joint Urban Operations in a Net Centric Environment**
  - Lessons learned in OIF
  - Assessing current capabilities and limitationsColonel (Ret.) Fred Stein, C3 Director, MITRE Corporation
- 4:15 **END OF CONFERENCE**



## Sponsorship and Exhibition Opportunities

### Why Sponsor or Exhibit at Joint Urban Operations?

IDGA Sponsorships and Exhibits are an excellent opportunity for your company to showcase its products and services to a highly targeted, senior-level military audience. IDGA helps companies achieve sales, marketing and branding objectives by setting aside a limited number of event sponsorships and exhibit places - all of which are custom-tailored to help your company maximize its exposure at the event and reach key decision makers in your field.

#### FOR MORE INFORMATION

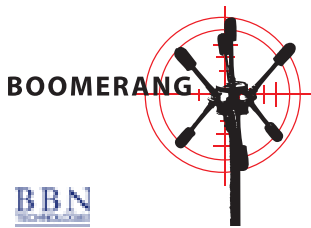
To learn more about these and other marketing opportunities, please call David Kirby at 212-973-3319 or via email at [sponsorship@idga.org](mailto:sponsorship@idga.org)

## About IDGA



The **Institute for Defense & Government Advancement (IDGA)** is a non-partisan information-based organization dedicated to the promotion of innovative ideas in public service and defense. We bring together speaker panels comprised of military and government professionals while attracting delegates with decision-making power from military, government and defense industries. **Visit us at [www.idga.org](http://www.idga.org)**

## Sponsor:



## Supporting Media:



## Register Online, by Email, Phone, Fax or Mail

**Web:** [www.idga.org/us/urbanops](http://www.idga.org/us/urbanops)

**Email:** [info@idga.org](mailto:info@idga.org)

**Phone:** 1-800-882-8684 or 973-256-0211

**Fax:** 973-256-0205 24 Hours A Day

**Mail:** Institute for Defense & Government Advancement  
535 5th Avenue, 8th Floor  
New York, NY 10017

Important! To speed registration, provide the customer registration code located on the back page — even if it is not addressed to you!

Pricing	Industry	Register & Pay by 08/27/07	Register & Pay after 08/27/07
		Military, Government and Academia	
Main Conference Only	\$999	\$899	\$999
Master Class Day	\$500	\$500	\$500

\*Military and Government Rates apply to serving military officers, government and academic personnel only

\*Please note that multiple discounts cannot be combined.

## Team Discounts\*

Number of Attendees	Savings of:
3 to 4	10%
5 or more	15%

\* Discounts apply to registrations submitted together, at the same time. Discounts may not be combined.

## MAKE CHECKS PAYABLE IN U.S. DOLLARS TO: IDGA

\* CT residents or people employed in the state of CT must add 6% sales tax.

### Details for making payment via EFT or wire transfer:

JPMorgan Chase  
Penton Learning Systems LLC dba IQPC: 957-097239  
ABA/Routing #: 021000021

Reference: Please include the name of the attendee(s) and the event number: 12393.001

**Payment Policy:** Payment is due in full at the time of registration and includes lunches, refreshments and detailed conference materials. Your registration will not be confirmed until payment is received and may be subject to cancellation.

Please refer to [www.idga.org/cancellation](http://www.idga.org/cancellation) for Cancellation, Postponement and Substitution Policy

## Venue & Lodging

### Georgetown University Conference Center (and Hotel)

3800 Reservoir Road NW, Washington DC, 20057

Tel: 202-687-3200

Fax: 202-687-3297

**Please Note:** The Georgetown Conference Center is located behind the Georgetown University Hospital and is not easily visible from Reservoir Road.

**Parking:** The Georgetown Conference Center does not validate parking passes. Parking in the adjacent garage is \$25 per day.

To secure reduced rates, please call the hotel at least 4 weeks prior to the conference and be sure to mention our conference name.

**Special Dietary Needs:** If you have a dietary restriction, please contact Customer Service at 1-800-882-8684 to discuss your specific needs.

©2007 IDGA. All Rights Reserved. The format, design, content and arrangement of this brochure constitute a trademark of IDGA. Unauthorized reproduction will be actionable under the Lanham Act and common law principles.

## REGISTRATION CARD

Yes, please register me for

### JOINT URBAN OPERATIONS

- Conference ONLY
- Master Class Day ONLY
- Conference and Master Class Day

See Page 5 for pricing details.

Your customer registration code is:

When registering, please provide the code above.

Salutation/Rank \_\_\_\_\_ Name \_\_\_\_\_

Job Title \_\_\_\_\_

Unit/Division \_\_\_\_\_

Organization \_\_\_\_\_

Approving Manager \_\_\_\_\_

Address \_\_\_\_\_

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

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Check enclosed for \$ \_\_\_\_\_ (Payable to IDGA)

Charge my \_\_Amex \_\_Visa \_\_Mastercard \_\_Diners Club

Card # \_\_\_\_\_ Exp. Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Please keep me informed via email about this and other related events.

**IDGA**  
535 5th Avenue, 8th Floor  
New York, NY 10017

### 5 EASY WAYS TO REGISTER:

- 1 Web: [www.idga.org/us/urbanops](http://www.idga.org/us/urbanops)
- 2 Email: [info@idga.org](mailto:info@idga.org)
- 3 Phone: 1-800-882-8684 or 973-256-0211
- 4 Fax: 973-256-0205 24 Hours A Day
- 5 Mail: IDGA  
535 Fifth Avenue 8th Fl, New York, NY 10017

12393.001/D/CF



# JOINT URBAN OPERATIONS

September 26-28, 2007

Advanced Technology and  
Concepts for the Urban Warfighter

Georgetown University Conference Center & Hotel • Washington, DC

Don't Miss the Urban  
Operations Tech. Demo  
Day! See inside...

Get expert  
perspectives from:

Joint Urban Operations  
Office, USJFCOM

DARPA

Marine Corps  
Warfighting Lab

RAND

MITRE

And others!  
See inside for details...

