



**NATO EOD CENTRE OF EXCELLENCE**  
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Trencin, <sup>21</sup> February 2019  
Ref.Nº: I-EOD COE – 59 - 4/2019


TO: See Distribution.

SUBJECT: **Integration of the Exoskeleton in the Battlefield 4<sup>th</sup> Workshop**

1. With a great pleasure the NATO Explosive Ordnance Disposal Centre of Excellence (EOD COE) invites all NATO, NATO Partnering and collaborating countries involved in Exoskeletons for Human Performance augmentation (EHPA) technologies development as well as subject matter experts in the area of Dismounted Soldier Systems to attend:

**the Integration of the Exoskeleton in the Battlefield 4<sup>th</sup> Workshop**  
to be held on **15 - 17 April 2019** in Trencin, Slovak Republic

2. The workshop will focus on EHPA technologies currently available on the market, finalization of Minimum Military Requirements (MMR) and data collection, including experimentation.
3. The main objective of this workshop is to investigate and prove how the exoskeleton technology may apply direct assistance to the EOD operations. The trials aim to examine how particular EHPA can support and enhance the EOD operator mobility, endurance, precision on target and increase the payload capacity.
4. Additionally, the workshop is to challenge, discuss and amend the first draft of elaborated CONOPS.
5. Several various exoskeletons will be tested by EOD teams from NATO nations.
6. The overall classification of the workshop is NATO UNCLASSIFIED.
7. Registration to the event is open till 29 March 2019.
8. The NATO EOD COE Officer of Primary Responsibility is LTC Ryszard WACLAWIK, phone: +421 960 333 565, mobile: +421 948 259 368, email: [ryszard.waclawik@eodcoe.org](mailto:ryszard.waclawik@eodcoe.org) , fax: +421 960 333 504.

  
Robert CSASZAR  
Colonel, SVK Army  
EOD COE Director

ENCLOSURES:

1. Tentative agenda
2. Administrative instructions
3. Personal administration form (PAF)

**TENTATIVE AGENDA**      Enclosure 1 to -EOD COE – 59 - 4/2019

<b>15 APRIL 2019</b>			
08.00 – 09.00	In processing, registration		
09.00 – 09.15	Welcome address		
09.15 – 09.25	Security and Admin brief		
09.25 – 09.35	Trials briefing		
09.35 – 09.45	Medical briefing		
Time	Trials	Time	Writing session
09.45 – 12.00	Conducting the trials according the 4th IEBWS Trials schedule and agenda	09.45 – 10.15	Coffee break
		10.15 – 11.30	Introduction and discussion on final MMR for EOD Exoskeleton
		11.30 – 11.45	Coffee break
		11.45 – 12.00	Further Development of a Low cost mechanical exoskeleton system ( Yavor Gegov )
12.00 – 13.00	<b>Lunch</b>		
13.00 – 17.00	Conducting the trials according the 4th IEBWS Trials schedule and agenda	1300 – 1400	Exoskeleton Concept of Operation – discussion.
		14.00 – 14.15	Coffee break
		14.15 – 15.00	Military Exoskeletons: key technology development areas (Francisco Javier Garcia Alvarez )
		15.00 – 15.15	Coffee break
		15.15 – 17.00	Exoskeleton Concept of Operation – discussion.
19.00 – 21.00	Icebreaker / networking		
<b>16 APRIL 2019</b>			
08.00 – 12.00	Conducting the trials according the 4th IEBWS Trials schedule and agenda	08.00 – 09.30	Exoskeleton Concept of Operation – discussion.
		09.30 – 10.00	Coffee break
		10.00 – 10.20	E.T.R.T. - Tactical Rachis Trunk Exoskeleton - for spinal decompression and for increased comfort and performances (Luisa Altomare )
		10.20 – 12.00	Exoskeleton Concept of Operation – discussion.
12.00 – 13.00	<b>Lunch</b>		
13.00 – 17.00	Conducting the trials according the 4th IEBWS Trials schedule and agenda	13.00 – 15.00	Exoskeleton Concept of Operation – final draft.
		15.00 – 15.30	Coffee break
		15.30 – 17.00	Reserved for additional points
TBD	Wrap up		
TBD	Social event – visit of Trencin castle		
<b>17 APRIL 2019</b>			
08.00 – 08.30	Short evaluation from companies and operators		
08.30 – 09.00	MILMED COE evaluation		
09.00 – 09.30	Coffee break		
09.30 – 10.00	Proposals, instructions and way ahead for the 5 <sup>th</sup> WS		
10.00 – 12.00	Static display		
12.00 – 13.00	<b>Lunch</b>		
13.00 – 14.30	<i>Any other Business</i>		
1430 - 1445	Closing remarks		

## 4<sup>TH</sup> IEB WS ADMINISTRATIVE INSTRUCTIONS

### 1. General

The overall OPR within the NATO EOD COE: LTC Ryszard WACLAWIK, phone: +421 960 333 565, mobile: +421 948 259 368, email: [ryszard.waclawik@eodcoe.org](mailto:ryszard.waclawik@eodcoe.org), fax: +421 960 333 504.. You are recommended to contact directly the Admin OPR whenever you need any assistance with administrative issues (accommodation, meals and refreshment, local transport, etc).

### 2. Location and Accommodation:

The workshop will be held in **M-sport**, Ostrov 363, 911 05 Trenčín, Slovak Republic.

Accommodation is an individual responsibility, however EOD COE pre-booked **Magnus Hotel**, Povazska 1706/35, Trenčín, [www.hotelmagnus.sk](http://www.hotelmagnus.sk). Reservations are to be made via [repcia@hotelmagnus.sk](mailto:repcia@hotelmagnus.sk) **till 14 March 2019** in order to get 20 % discount use the Promo Code: EODCOE. Please be aware that bookings via online reservation systems (e.g. hotel website, booking.com...) do not guarantee discounted prices. Overall 37rooms are pre-booked for the time period 14-17 April 2019. After this date, availability of rooms is not guaranteed.

Another hotels or accommodation options could be found on <https://visit.trencin.sk/en/kategoria/planning-a-trip/accommodation/>.

### 3. Transport and parking

From Vienna airport (Austria) to Trenčín, Slovak Republic (approximately 180km)

1. The most feasible way to get directly to Trenčín is to rent a car from the Vienna airport (i.e. [www.eurocar.com](http://www.eurocar.com), [www.avis.com](http://www.avis.com), <https://www.hertz.com>, ...) or
2. Take a bus from the Vienna airport to the main Bus Station Bratislava, (i.e. <http://www.eurolines.sk/en.html>,...) and then take another bus from Bratislava AS (bus station) to Trenčín (i.e. <http://cp.atlas.sk/bus/spojenie/>)

Please be aware that EOD COE will provide local transportation from the Hotel Magnus to the IEB WS facility and back **only**. The bus will depart from MAGNUS HOTEL at 0720 hrs daily on 15-17 April 2019.

### 4. Registration and In-Processing

All participants are required to forward the completed Personal Application Form (Enclosure 3) to OPR, [ryszard.waclawik@eodcoe.org](mailto:ryszard.waclawik@eodcoe.org) **NLT 29 MAR 2019**. If any outstanding issues, please contact: LTC Ryszard WACLAWIK, phone: +421 960 333 565, mobile: +421 948 259 368.

During in-processing the participants are required to be in possession of Passport or Identification card and NATO Travel order (when applicable).

### 5. Conference fee

The conference fee is set for 30 € (to cover admin support, lunches and refreshments). The fee will be collected during in-processing on 15<sup>th</sup> of April 2019. (cash only, a receipt is to be provided)

### 6. Meals

Refreshment and lunches during the meeting will be served at 4<sup>th</sup> WS venue in the M-sport restaurant.

### 7. Icebreaker

The Icebreaker will be organized on **15th April 2019** from 19.00 – 21.00 hrs in the Magnus Hotel.

## 8. Dress Code

The dress code throughout the whole meeting for military personnel is the BDU, for the civilian smart casual. For the Icebreaker it is smart casual for all participants.

## 9. Electricity

Voltage in Slovak Republic is 220 V /50Hz, power outlet Type C and Type E is used. If bringing a laptop or other electric devices, it is recommended to bring suitable "worldwide" adapters.

## 10. Security

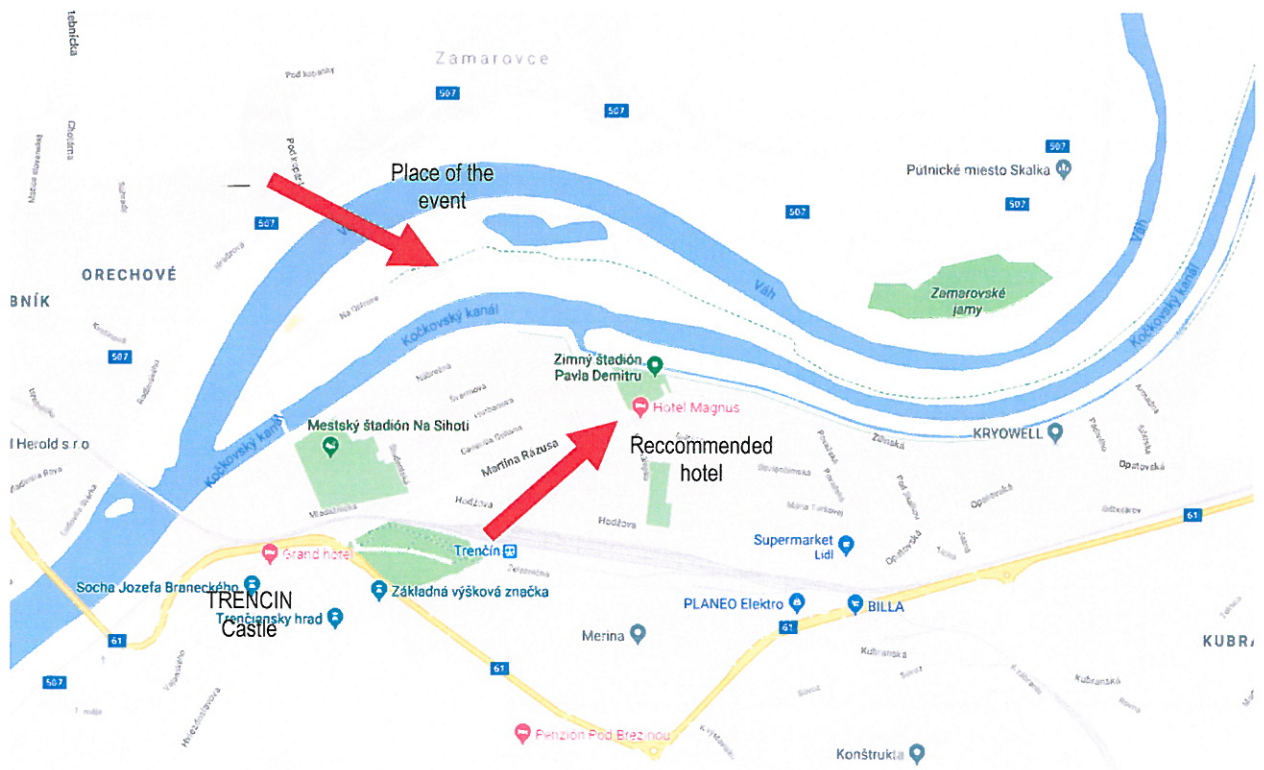
The overall classification of the workshop is NATO Unclassified.

Essential security rules will be applied (no guns, weapons or other hazardous materials are allowed).

## 11. Social Events

The EOD COE will organize the visit of Trencin castle tour based on participants' interest. There will be no spouse programme organized by the EOD COE.

## 12. Map of location





**PERSONAL APPLICATION FORM  
for 4<sup>th</sup> IEB WS, Trencin Slovakia**



(to be sent NLT 29 MAR 2019 to: [ryszard.waclawik@eodcoe.org](mailto:ryszard.waclawik@eodcoe.org) and [exoskeleton@eodcoe.org](mailto:exoskeleton@eodcoe.org))

Last name		
First name		
Nationality		
Passport No:		
Rank:		
Traveling with the spouse?		
Parent Organisation		
Current Post:		
Email:		
Telephone:		
Postal address for sending materials from the workshop		
Mode of travel	AIR / CAR / TRAIN	
Arrival date/time:		
Departure date/time:		
Reservation made at hotel		
Attendance of Icebreaker on 15 April 2019	YES	NO
Intent of visit Trencin castle on 16 April 2019	YES	NO
Any remarks/requests		

(upon completion treated as personal confidential information)