

by: **International Space Education Institute  
& Jesco von Puttkamer Society**

"2018 we invite to a triple-mission"

- Space Camp, Marshall Spaceflight Center, Kennedy Space Center -  
with SpaceX units and Falcon 9 launch

2018 we invite to a triple-mission

- Space Camp, Marshall Spaceflight Center, Kennedy Spaceflight Center -

All international schools who are member of the "Jesco von Puttkamer Society" are invited to be part of the following activities. All students who are members of the International Space Education Institute are invited to be part of the following activities.

How to make a membership? See at the end of this document.

**Program-Overview**

- |  |                    |
|--|--------------------|
| 1. Space Camp Mission 28 / JvP-Mission 1               | 01.-06. April 2018 |
| 2. NASA Human Exploration Roverchallenge (+ festival)  | 12.-14. April 2018 |
| 3. Cape Canaveral, Falcon 9 launch and NASA Swarmathon | 17.-22. April 2018 |

**involved schools:**

Tec Mantra Labs, Kurukshetra, Haryana, India  
 SRM Institute of Science and Technology, Chennai, India  
 Indo-Swiss-Training-Centre, Chandigarh, India  
 Colegio Santa Terezinha, São Gonçalo, Brazil  
 Universidad Mayor de San Andrés, La Paz, Bolivia  
 Universidad Autónoma G. René Moreno, Santa Cruz, Bolivia

**board, transportation and workshop**

The board of the Jesco von Puttkamer Society and International Space Education Institute is available from March 29th 2018 (9:00 am) to April 22nd 2018 (02:00pm) in Huntsville AL. We have a 15 passenger bus for an airport-transfer. There is also a huge workshop available with all important machines. Members of ISEI or JvP-Society are able to use it for assembling of their rovers

**finances:** Every individual or team has to pay his/her travel costs, food, hotel and local transportation by themselves. Use our hints to collect these funds in your home-country. We don't charge any additional funds/win for our service and program (except the annual membership fee of 150€ per person at ISEI or 600€ per school and team at JvP-Society). Every participating team must have own leaders (over 21 years) teachers and responsible for their students. We accept ISEI-ambassadors as responsible.

**invited are:**

- Space Camp Expedition 28 / JvP Mission 1 (12 participants from 7 nations)
- #30 NASA Roverchallenge - Team Germany Highschool, Germany
- #41 NASA Roverchallenge - Team Spacetoppers, Colegio Santa Terezinha, Brazil
- #79 NASA Roverchallenge - Team 1 Indo-Swiss-Training-Centre, Chandigarh, India
- #80 NASA Roverchallenge - Team 2 Indo-Swiss-Training-Centre, Chandigarh, India
- #91 NASA Roverchallenge - Team SRM Institute of Science and Technology, Chennai, India
- #93 NASA Roverchallenge - Team Tec Mantra Labs, Kurukshetra, Haryana, India
- #66 NASA Roverchallenge - Team Bolivia 1, Universidad Mayor de San Andrés, La Paz
- #98 NASA Roverchallenge - Team Bolivia 2, Universidad Autónoma G. R. Moreno, S. Cruz

**Invited are also: every team/school who want to participate from that logistic, join a membership only! How to make a membership? See at the end of this document.**

**local ISEI-office and hotel**

Days Inn Space Center, University Drive, HSV  
<https://www.wyndhamhotels.com/days-inn/huntsville-alabama/days-inn-huntsville-al/overview>

**contact:**

Ralf Heckel, Whatsapp: +49-172-7949375, messenger: facebook.com/ralf.heckel1  
 email: ralf.heckel at jvputtkamer.com (only for data transfer)

## 1. Space Camp Expedition 28 / JvP-Mission 1

This is the 28th Space Camp Mission of the year 2018. It has the working title: "Expedition 28" at the US Space Camp. This is the 1st mission to honor the german-american NASA-scientist Jesco von Puttkamer. So it has also the claim "JvP-Mission 1".

12 students in an age between 11 and 14 years are participants. They are from Germany, Greece Brazil, Spain, Bolivia and India. All participants are also junior-teammates of various international Roverchallenge teams. They are using this Space Camp expedition to rise their knowledge in space-sciences and will be supporters of their rovertteams in the week after it.

**Space Camp Expedition 28**  
**JvP-Mission 1**  
April 1-8, 2018

Participants (from left to right):  
 Firine Bugenhagen (D), Cosma Heckel (D), Anni Teetz (D), Lennox Jones (NZ),  
 Sotiris Mitsopoulos (GRC), Gursimran Grewal (IN), Atharva Manish Inamdar (IN),  
 João Victor Cirne Alvarez (BR), Julia Chaboudt Quintaes (BR), Felipe Santos da Fonseca (ES),  
 Mariah Martins Vieira de Carvalho Mota (BR), Nicole Cano (BOL)

Logos: Space Education Institute, Tec Mantra Labs (Skills Innovations Talent), Colégio Santa Terezinha

www.SpaceEducation.eu

### **The Space Camp mission-program**

Launch on missions to the International Space Station, the moon or Mars!

Train like an astronaut on the 1/6th Gravity Chair and the Multi-Axis Trainer.

Design, build and launch a team rocket.

Learn teambuilding skills on the low elements at our Area 51 Challenge Course and in one of our water facilities!

Put your creative thinking skills to work in our engineering design challenges!

Hear the inspiring stories about commercial pioneers like Elon Musk, founder of SpaceX!

### **Time-schedule**

30.03.2018 latest arrival of all Space Camp participants in Huntsville Alabama

31.03.2018 Briefing and sight seeing, teambuilding,  
Easter Egg hunting at Tennessee-River / Dito Landing

### **Space Camp-schedule**

1. April 2018, sunday, 11:30 a.m. - 1:30 p.m. (CST): Arrival Window:

**1. April 2018, sunday, 2:00 p.m. (CST): Program Orientation**

then activities from sunday to sunday with loding in Habitat (Space Camp Hotel)

**6. April 2018, friday, 11 a.m. – 12 p.m. (CST): Graduation Ceremony**

Departure to hotel: after graduation ceremony

6.-8.04.2018 cultural weekend-program with all students from JvP-missions  
(Huntsville/AL, Tennessee-River, Cathedral Caverns, Jack Daniels Destillerie)

This Space Camp Expedition will be under the leadership of Yvonne Heckel (ambassador).

### **participants:**

Firine Bugenhagen (D),

Cosma Heckel (D),

Anni Teetz (D),

Lennox Jones (NZ)

Sotiris Mitsopoulos (GRC)

Gursimran Grewal (IN),

Atharva Manish Inamdar (IN)

João Victor Cirne Alvarez (BR),

Julia Chaboudt Quintaes (BR),

Felipe Santos da Fonseca (ES),

Mariah Martins Vieira de Carvalho Mota (BR)

Nicole Cano Fernandez (BOL)

## 2. NASA Human Exploration Roverchallenge (JvP-events)

The international participation is rising constantly. It was starting with a 1st team in 2007. Prof. Jesco von Puttkamer ignited this. 96 international teams participated between 2011 and 2017. Since 2013 the Jesco von Puttkamer Society is sponsor of the International Team Award, what has now his name. Therefore the society opens some doors and offers programs for schools to international participants in Huntsville/AL and on other international places.

7 international rovertteams are actual members of the JvP-society. Other are invited to earn a membership of the largest spaceeducation network.

- 28.03.2018 arrivals, pepaering workshop, cultural program,  
 31.03.2018 Easter Egg hunting at Tennessee-River / Dito Landing  
 02.04.2018 start assembly at workshop for international rovertteams  
 We make one week assembly and tuning in our partner-workshop.  
 There are sightseeings and visits at the UAH and Guss-Grissom Highschool part of the program.
- 6.-8.04.2018 cultural weekend-program with all students from JvP-missions  
 (Huntsville/AL, Tennessee-River, Cathedral Caverns, Jack Daniels Destillerie)
- 09.04.2018 strategic trainings  
 A 3-days-special training focusses all new tasks for the new rules. We have a testcourse and teach the drivers and team for the upcoming specials. Space Camp participants will get controlling jobs.b
- 12.04.2018 12:00 pm registration day at the USSRC-property,  
**03:00 pm all-international-team photo with rovers**  
 04:00 pm walking over the course  
 05:00 pm MANDATORY Team Safety Meeting
- 13.04.2018 07:00 am start Race 1  
 03:30 pm gates close for Race 1  
**05:00 pm International Get-Together 2018 (event)**  
**EFT-Auditorium (05:00 - 09:00 pm, incl. dinner)**  
**Every invited team make a 20-min-presentation!**
- 14.04.2018 07:00 am start Race 1  
 03:30 pm gates close for Race 1  
**5:00 p.m. – 7:00 p.m.: Awards Ceremony in the Davidson Center Saturn V**
- 15.04.2018 Rover disassembling and wrapping for transportation
- 16.04.2018 Departure to home (for some students), departure to Cape Canaveral by car

former competitions with ISEI (10 years):

<https://www.flickr.com/photos/spaceeducation/collections/72157618932415239/>

Participants:



NASA Roverchallenge Team Germany Highschool, Germany, Team# 30



NASA Roverchallenge Team Spacetroopers, Colegio Santa Terezinha, Brazil, Spacetroopers made a Summercamp in Leipzig, Team# 41

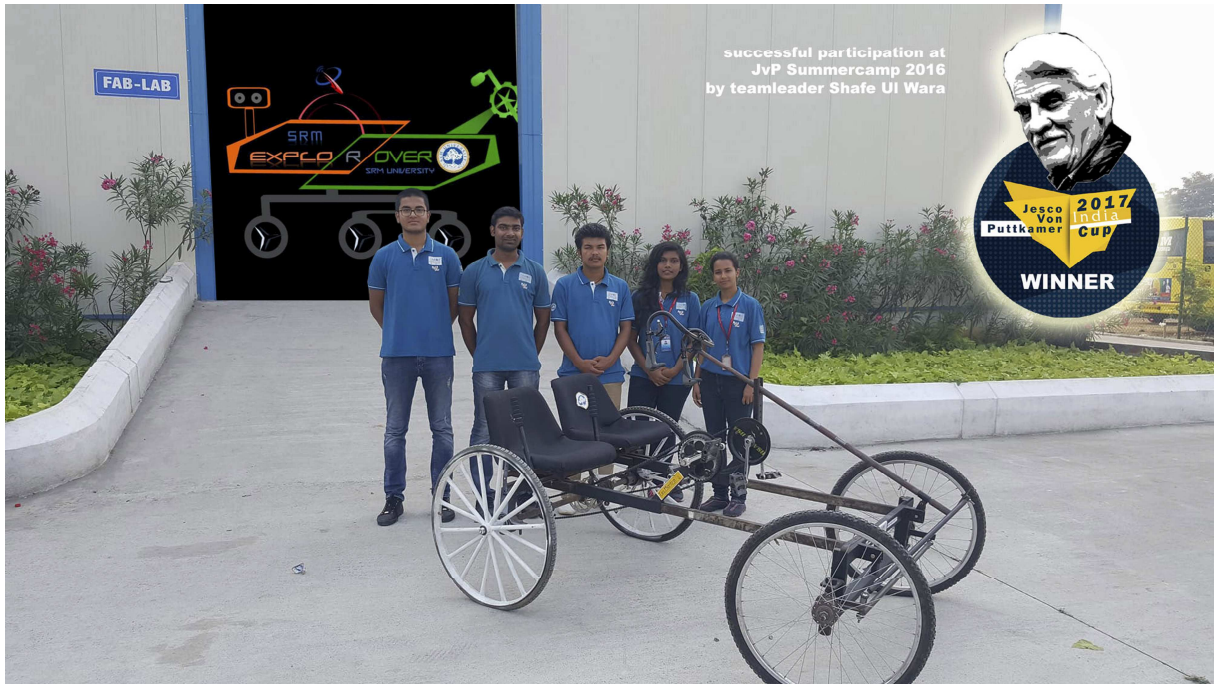
all indian teams are the winner of the Jesco von Puttkamer Cup 2017



10 teams made this challenge in october 2017 at Amity University, Noida India



NASA Roverchallenge Team Indo-Swiss-Training-Centre, Chandigarh, India,  
Team# 79-80



NASA Roverchallenge Team SRM Institute of Science and Technology, Chennai, India  
Team# 91



NASA Roverchallenge Team Tec Mantra Labs, Kurukshetra, Haryana, India,  
Team# 93



both bolivian teams are follower of Alina Sandra SantanderVinokurova (ISEI-ambassador)



NASA Roverchallenge Team Team Bolivia, Universidad Mayor de San Andrés, La Paz Team# 66



NASA Roverchallenge Team Bolivia, Universidad Autónoma G. René Moreno, Santa Cruz Team# 98

### 3. Cape Canaveral, Falcon 9 launch and NASA Swarmathon

Cape Canaveral is the place where the Kennedy Space Center (KSC) is. There are the NASA launchpads, operation facilities and a huge Visitor Complex. The "Space Coast" is in Florida and on the beach of the Atlantic Ocean. The temperatures in April are between 20-30 °C.

ISEI has a special relation to the KSC since the launch of STS-114 (return to flight). ISEI was also the 1st european organization who honored the astronauts of STS-107 (Columbia accident). Since 2005 ISEI got a special membership at the Astronaut memorial Foundation (AMF) and was invited to 3 Space Shuttle launches, the launch of Marslander Phoenix and a landing of a Space Shuttle. In 2018 ISEI supported a small team to see the launch of Falcon Heavy. Numerous visits and VIP-tours are between 2005 and 2018.

ISEI- and JvP-members are invited to this fieldtrip. You must have your own rental car, a driver and must book your own hotel (use Motel 6 at Cocoa Beach, Atlantic Avenue). You can go with us in a car-corso. All other program will be organized by ISEI.

**There is a schedule for a Rocket launch of Falcon 9 at April 16th, 6:30 pm (EST)!**



ISEI students saw a Falcon 9 launch at the hidden mission control center at NASA Headquarters, Washington DC, April 18, 2014

If the countdown will start at April 14th (saturday), then we will delete the fee sunday on 15. April 2018 in Huntsville/AL. The departure of students who must fly home on monday will be guided by NASA-friends in Huntsville (departure: 16.04.2018, 14:18h from HSV-Airport).

15.04.2018 early morning, start to Cape Canaveral (18h travel by car)  
 16.04.2018 early morning, see launch of Falcon 9 at KSC  
 17.04.2018 Beach Day, free day, relaxing and shopping

If the launch will be changed or scrubbed, we follow this program and embed the launch here.

16.04.2018 evening, departure to Florida by rental car  
 17.04.2018 arrival at Cocoa beach around noon, Hotel-checkin, after that freetime  
 18.04.2018 visit the KSC-Visitor complex and NASA Swarmathon (robotic competition)  
 visit the AMF to honor Kalpana Chawla (for our indian members)  
 invitation to a birthday-dinner of Ralf Heckel at dixiecrossroads.com (seafood)  
 with friends from NASA and more  
 19.04.2018 Tour at KSC with launchpads, VAB, SaturnV Center (or Falcon 9 launch)  
 20.04.2018 Astronaut Hall of Fame and SpaceX Mission Control at Port Canaveral  
 dinner at the Cocoa Beach pier with swimming and old Apollo-Era stories  
 21.04.2018 beach-morning, then travel to Huntsville AL (18h travel by car)  
 22.04.2018 16:55h Departure to home from HSV-Airport



former KSC-Tours with ISEI:

2013: <https://www.flickr.com/photos/spaceeducation/collections/72157633254163839/>

2015: <https://www.flickr.com/photos/spaceeducation/collections/72157652090896196/>

report 2005: <http://www.spacepass.de/essay/Discovery.pdf>

report 2008: <http://www.spacepass.de/essay/Phoenix-sm.pdf>

## What is after that?

### 1. JvP-SummerCamp 2018



We invite you to our annual international JvP-SummerCamp with participants from all over the world. This is in Leipzig/Germany. You live in the Space Hotel for non-profit-costs. You are able to participate with hundreds of space-events in one summer. These education was made by the german-american NASA scientist Prof. Dr. Jesco von Puttkamer (Apollo, Skylab, Star Trek, Space Shuttle, ISS). He was born in Leipzig.

You learn all what you need for international spaceducation missions. The most successful international teams were created here.

\* Teamwork \* Integrity \* Excellence \* Safety = Mission Success  
also: multilinguality, multidiscipline, CAD-design, CAM, handycraft, culture

**Part 1: 04.06. - 26.06.2018** incl a competition in solar-power, guestland Russia + other.  
**Part 2: 30.07. - 20.08.2018** non-stop-program, guestland India, Bolivia, Brazil + other.

### What you need?

- a membership at International Space Education Institute (see at the end)
- costs for lodging, food and petrol: 150 €/week
- your spirit, time and engagement & a contact your local host of ISEI

Everybody will get a certificate. After a 2-week-orientation we pay your extension when you are excellent.

**Fotos:** <https://www.flickr.com/photos/spaceeducation/collections/72157684538756755/>

## 2. Moscow 2018 (Russia)

You are invited to celebrate the launch of sputnik (61 years) on october 4th. The night before you will invited by the german ambassador to celebrate 28 years geman unification at the german embassy in Moscow. A one week-programm will guide you through the most spectacular russian space-institutes and space museums. You will meet the daughter of the sputnik- and gagarin-rocket designer Korolev and will be whitness of a very special VIP-meeting what was never before! You live an a partner-hotel from Space Hotel and will meet the russian ISEI-students and the next NASA Roverteam Russia 2019.

### What you need?

- a membership at International Space Education Institute (see at the end)
- costs for lodging, food and public traffic: 250 €/week
- your spirit, time and engagement & a contact your local host of ISEI
- You need a tourist visa for russia and a flight ticket.

We will create a grout of max. 15 students for that program.



### former Moscow Excursions:

- 2017: <https://www.flickr.com/photos/spaceeducation/collections/72157678941352056/>  
 2016: <https://www.flickr.com/photos/spaceeducation/collections/72157662777450660/>  
 2015: <https://www.flickr.com/photos/spaceeducation/collections/72157650186931311/>  
 2014: <https://www.flickr.com/photos/spaceeducation/collections/72157639694162935/>  
 2014: <https://www.flickr.com/photos/spaceeducation/collections/72157635223849178/>

### 3. JvP-Cup 2018 (India)



This is the office of Jesco von Puttkamer Society in Kurukshetra (India). From here the JvP-Cup will be organized by TecMantra Labs Global and International Space Education Institute. The first cup was in 2017 with 10 participating teams. The location was Noida University near Delhi.

This cup gives the chance to compete in an national level. So you can find our what you need to climb up into the international field of space education. Winners will be supported for international competitions - if the rules of that competitions allow this. Every participating team and student will get a certificate and can use that success for his local sponsors.

**the local host is:**

TecMantra Labs, c/o Navdeep Singh  
 Ekta Vihar, Vishnu Colony,  
 Thanesar, Haryana 136118, India  
 email: india@jvputtkamer.com  
 phone: +91 989 69 80041

**JvP-Cup 2017:**

<https://www.flickr.com/photos/spaceeducation/collections/72157687737905043/>

## Editorial

### International Space Education Institute

charitable free institute to support the study- and occupational orientation in engineer's being and aerospace industries (registered association)

Wurzner Str. 4

D-04315 Leipzig Germany

register# VR 4401 (non-profit-association, donations possible)

[www.spaceeducation.eu](http://www.spaceeducation.eu)

Jesco von Puttkamer Society

(spaceeducation network for international schools)

Wurzner Str. 4

D-04315 Leipzig Germany

register# VR 5509 (non-profit-association, donations possible)

#### contact:

Ralf Heckel, Whatsapp: +49-172-7949375, messenger: facebook.com/ralf.heckel1

email: ralf.heckel at jvputtkamer.com (only for data transfer)

#### press-reactions of the past 10 years:

<https://www.dropbox.com/sh/ovaxs0zzxqgczo6/AAA2zuyN1QhCdptBu8i0887Ra?dl=0>

#### membership form:

<http://www.spaceeducation.de/de/meinsei/mitgliedschaft/antrag-auf-mitgliedschaft.html>

#### annual membership fee:

for a student	150 € (12,50 €/month)
for an adult	420 € (35,00 €/month)
for a school	600 € (50,00 €/month)
for a university	960 € (80,00 €/month)

#### payment possibilities:

[paypal@spaceeducation.eu](mailto:paypal@spaceeducation.eu) (fast and easy)

creditcard (we need your creditcard datas and permission)

#### bankaccount:

reciever:

ISEI eV

bank:

Commerzbank Leipzig

IBAN:

DE48 8604 0000 0209 9810 04

BIC/SWIFT:

COBADEFFXXX

#### cash:

in Germany in €, in USA in \$, in Russia in Rub