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### General Information

#### Accommodation

Howard Johnson CAEXPO Plaza Nanning No.98, Zhuxi Road, Qingxiu District, Nanning, Guangxi Tel: +86 771 6706666

#### **Venues**

Nanning No.2 High School
No. 66, Yunjing Road, Qingxiu District, Nanning, Guangxi
Tel: +86 771 6114338
September 24 Opening Ceremony Rehearsal
September 25 Opening Ceremony, Keynote Speech
September 26 Team Project, Teacher workshop
September 27 Team Project, Teacher workshop
September 29 Awarding Ceremony

Howard Johnson CAEXPO Plaza Nanning September 24 Ice-breaking Activity September 27 Buffet and Cultural Night September 29 Farewell Banquet



## **Participating Countries/Regions**

Australia	Azerbaijan	Cambodia	China
Costa Rica	Czech Republic	Hong Kong, China	India
Indonesia	Iran	Italy	Japan
Kazakhstan	Kenya	Lao PDR	Malaysia
Myanmar	Nepal	Oman	Pakistan
Philippines	Republic of Korea	Romania	Serbia
Sri Lanka	Tajikistan	Thailand	Tunisia
Turkey	Uganda	Ukraine	Uzbekistan
Viet Nam	Zimbabwe		

## Safety and Participation Instructions

- Participants must wear their name badges to participate in all activities during the camp.
- Each team will meet with your student volunteer upon arrival, and he/she will be your first contact and very important source of information during the camp. The volunteers are all English speaking.
- All participants need to follow the security and facility instructions of the school and hotel.
- Take good care of your personal belongings. Do not leave them unattended in the school or any other public places. Make sure to take all your belongings when you leave the school.
- Close the door securely whenever you are in your hotel room and use the locks.
- Avoid bringing valuables to the camp. Anything that is brought should be placed in the hotel's safe deposit box.
- Remember to prepare some medicine in your own need. In case of urgent medical assistance, you may ask volunteers or staff to help contact medical facilities.
- Underage drinking is prohibited at any occasions during the camp. Minors under the age 18 are not allowed to consume alcoholic beverage.
- Emergency numbers: Police:110 Emergency medical care: 120

By entering the Belt and Road Teenager Maker Camp and Teacher Workshop, you agree that you may be filmed or photographed for use in various promotional materials.



## **Bus Arrangement**

The buses are arranged by countries/regions, as followed:

- Bus 1: Australia, Azerbaijan, Czech Republic, Hong Kong, China, Iran
- Bus 2: Costa Rica, India, Indonesia, Italy, Japan
- Bus 3: Lao PDR, Myanmar, Malaysia, Nepal, Oman, Pakistan, Zimbabwe
- Bus 4: Cambodia, Kenya, Republic of Korea, Thailand, Uzbekistan
- Bus 5: China, Kazakhstan, Philippines, Romania, Serbia, Sri Lanka
- Bus 6: Tunisia, Tajikistan, Turkey, Uganda, Ukraine, Viet Nam

Please get on the right bus when we move.

# **Programs for Student**

#### **Schedule for Students**

Time	Activity	Location	Venue	
Day 1, 24 <sup>th</sup> September				
All-day	Registration (Students and supervisors get their name tags and backpacks at the registration desk.)		Hotel	
17:00-19:30	Dinner and Ice-breaking Activity	Grand Ballroom, 1st floor		
19:30	Buses leave from the Hotel	to Nanning No.2 High	School	
20:00-21:30	Opening Ceremony Rehearsal (Students who need to be on the stage)	Lecture Hall No.1	Nanning No.2 High School	
21:30	Buses leave from Nanning	No.2 High School to the	e Hotel	
	Day 2, 25 <sup>th</sup> Septe	mber		
06:00-08:00	Breakfast (For Students who need to be on the stage, please dress traditional clothes)	Café, 1st floor	Hotel	
07:30	Buses leave from the Hotel to Nanning No.2 High School (Students who needs to be on the stage)			
08:00-09:30	Opening Ceremony Rehearsal (Students who need to be on the stage)	Lecture Hall No.1	Nanning No.2 High School	
08:40	Buses leave from the Hotel (The rest of stud	to Nanning No.2 High dents and teachers)	School	
09:30-09:50	Group Photo Square in front of Qitian Building		Nanning No.2	
10:00-10:50	Opening Ceremony	Opening Ceremony		
10:50-11:50	Keynote Speech	ech Lecture Hall No.1		
12:00-13:00	Lunch	Student Canteen		
13:00	Buses leave from Nanning No.2 Technolo	High School to Guangxi	Science and	
14:00-17:00	Tour	Guangxi Science an	d Technology	

		Museu	m
17:00	17:00 Buses leave from Guangxi Science and Technology Museum to the Hotel		
18:30-20:30	Dinner Nanning Room, 2 floor		Hotel
	Day 3, 26 <sup>th</sup> Septe	mber	
06:30-07:30	Breakfast	Café, 1st floor	Hotel
08:00	Buses leave from the Hotel	to Nanning No.2 High	School
09:00-12:00	Team Project	Classrooms	
12:00-13:30	Lunch	Student Canteen	
13:30-17:30	Team Project	Classrooms	
18:00-19:00	Dinner	Student Canteen	
	Viable Project Group A will include students from	Group A, Lecture Hall No.3	Nanning No.2
19:00-21:00	Video Making, Creative Programming, Intelligent Robot and the Art of Electronic. Group B will include students from Colorful Chemistry, the Art of Printing, Airplane Model and the Art of Model	Group B, Zhitong Building,Ladder Classroom	High School
21:00	Buses leaves from Nanning	No.2 High School to the	e Hotel
Day4, 27 <sup>th</sup> September			
06:30-07:30	Breakfast	Café, 1st floor	Hotel
08:00	Buses leave from the Hotel		School
09:00-12:00	Team Project	Classrooms	
12:00-13:30	Lunch	Student Canteen	Nanning No.2
13:30-17:00 Team Project Presentation and Presentation and Presentation and Project Presentation and		Classrooms	High School
17:00	Buses leave from Nanning No.2 High School to the Hotel		Hotel
18:30-22:00	Buffet and Cultural Night  Grand Ballroom, 1st floor		Hotel
	Day 5, 28 <sup>th</sup> Septe		
06:30-08:30	Breakfast Café, 1st floor Hote		Hotel
08:50	Buses leave from the Hotel to Anthropology Museum of Guangxi		of Guangxi
09:30-11:30	Tour Anthropology Museum of Guangxi		
11:30	Buses leave from Anthropology	y Museum of Guangxi to	the Hotel

F 4 7 1		Café, 1st floor	y
		(Common Food)	
12:00-13:00	Lunch	Specialty Restaurant,	Hotel
		2nd floor (Halal	
		Food)	
13:30	Buses leave from the Hot	el to Fantawild Asian Le	gend
14:00-19:00	Tour	Fantawild Asia	n Legend
19:00	Buses leave from Fantawi	ild Asian Legend to the I	Hotel
		Café, 1st floor	
		(Common Food)	
19:30-20:30	Dinner	Specialty Restaurant,	Hotel
		2nd floor (Halal	
		Food)	
Day 6, 29 <sup>th</sup> September			
06:30-08:00	Breakfast Café, 1st floor		Hotel
08:00	Buses leave from the Hotel to Nanning No.2 High School		
09:00-12:00	Team Project Presentation and	Lecture Hall No.3	Nanning No.2
09.00-12.00	Reviewing(Please take your works)	Lecture Hall No.5	High School
12:00	Buses leave from Nanning	No.2 High School to the	e Hotel
12:30-14:30	Lunch	Nanning Room, 2nd	Hotel
12.30-14.30	Lution	floor	Hotel
15:00	Buses leave from the Hotel	to Nanning No.2 High	
16:00-17:30	Awarding Ceremony	Lecture Hall No.1	Nanning No.2
10.00-17.50	,		High School
17:30	Buse leaves from Nanning No.2 High School to the Hotel		
18:30-20:30	Farewell Banquet	Grand Ballroom, 1st	Hotel
13.00 20.00		floor	110101
	Day 7, 30 <sup>th</sup> Septe		
All-day		parture	
, iii day	(Please be kindly noted that all teams need to check out before 14:00)		

#### **Team Project for Students**

Subjects	Location		
Intelligent Robot	Qitian Building	203	IT Classroom
The Art of Model	Qitian Building	306	IT Classroom
The Art of Printing	Zhitong Building		Ladder Classroom
Colorful Chemistry	Qiming Building	206	Chemistry Labs
Airplane Model	Zhida Building		Ladder Classroom
The Art of Electric	Qitian Building	403	3D-VR Labs
Video Making	Qitian Building	307	Recording Classroom
Creative Programming	Qitian Building	304	IT Classroom

#### **Team Project Presentation and Pre-reviewing**

Under each subject, each team will do the presentation under the guidance of their instructor. The instructor of each subject will pick up teams who may enter the reviewing round and compete for the Best Maker.

#### **Team Project Presentation and Reviewing**

Each team will have 10 minutes to present their project and answer questions from the judges with PPT.

The PPT should be in English and contain information as below: Project name, team No., subject (one of the five), list of team members and task allocation, scientific principles related to the project, other information you would like to show to the judges. This year, each team's presentation is specially required to add some contents about <Viable Project> given by Ukrainian experts. For example, project orientation to the solution of specific problem (globally, for society, for individual or group of individual).

## **Grouping For students**

		Video Making
Team No.	Country/Region	Name
	Australia	Muhammad Ahmed
1	Hong Kong, China	Yat Lok Au
	Kenya	Ashita Brijeshkumar Patel
	Cambodia	Kongkeachalsak Chea
2	China	Jiaxi Sun
	Czech Republic	Eva Machytkova
	Australia	Zayd Maarabani
3	Malaysia	Muhammad Hazim Aiman Bin Ahmad Nazri
	Indonesia	Lanang Damar Wicaksana
4 10 1	Viet Nam	Phuong Linh Pham
4	Italy	Filippo Sonzogni
	Kenya	Neema Juliana Nyakundi
5	Australia	Samara Ayoubi
	Hong Kong, China	Chun Kit Wong
	Malaysia	Muhammad Alif Muazzam Bin Mohd Kauli
6	Thailand	Kittiyani Sakuna
	Italy	Alessandro Grandi
	Tajikistan	Sarvinoz Mirvaisova
7	Malaysia	Muhammad Irfan Haikal Bin Mohd Firdaus
	Thailand	Jirapak Pulkumlang
	Uzbekistan	Farzona Gayratova
8	Indonesia	Muhammad Khairu
	Viet Nam	Thanh Ha Pham

Team No.		The Art of Printing
Team No.	Country/Region	Name
	China	Xinyi Fang
1	India	Aaboli Ganesh Shinde
	Indonesia	Zulfa Mahiratu Marwa
	Iran	Amirhossein Saedibehrouz
2	Lao PDR	Anouphab Siharath
	Ukraine	Oleksandr Levak

3	Lao PDR	Somchay Chaleunphon
3	Myanmar	Linn Thant
	Pakistan	Sajjad Hussain
4	Serbia	Ana Savić
	Uganda	Daniella Ruth Nantambi
5	Lao PDR	Chansaveuy Vannavong
5	Ukraine	Anna Gusak

Team No.	The Art of Model		
realli No.	Country/Region	Name	
	Azerbaijan	Leyli Asgarova	
1	Cambodia	Mony Meas	
'	Japan	Rin Adachi	
	India	Mrunmayi Gangal	
	Azerbaijan	Najaf Mammadov	
2	Cambodia	Chealy Peng	
2	Uzbekistan	Asilbek Ilkhombekov	
	China	Shiqian Meng	
	Hong Kong, China	Chak Yin Jalen Fu	
3	Azerbaijan	Fidan Ismayilzada	
	Indonesia	Aulia Hilmy Affandy Sitepu	
	Japan	Misato Tomii	
4	Azerbaijan	Sara Mammadova	
	Philippines	Reven Jay Limen	
	Viet Nam	Chau Linh Nguyen	
5	Serbia	Vojin Crnogorac	
	Turkey	Berk Billur	
	Uganda	Jamila Sayaka Kariisa	
	Cambodia	Shukhy Ung	
6	Uzbekistan	Javokhir Jamshidov	
J	Viet Nam	Duc Duy Ngo	
	Philippines	Bryan Justine Dela Cruz	

Team No.	The Art of Electronic Circuit	
realli No.	Country/Region	Name
	Iran	Shayan Dabagh
1	Ukraine	Ihor Shybka
	Lao PDR	Ketdavong Phrasisombath
2	China	Kaiwen Guo



Ukraine	Vladyslav Parfeniuk
China	Zihao Qin

Toom No.	Intelligent Robot	
Team No.	Country/Region	Name
	Australia	Tiarna Lauren Kelly
1	India	Ishan Amit Phanse
	Indonesia	Rafy Adam Fazananda
	Romania	Stefan Gretcan
	Indonesia	Mochammad Elvin Fitrando
2	Sri Lanka	Sayuni Amasha Dabare Hewage
	Republic of Korea	Sangbaek Bang
	Republic of Korea	Jooseong Song
3	Romania	Antonie-Rareş Grigoraş
	Oman	Zainab Talib Rashid Al-Hashemi
1-1	Philippines	Neil Dustin Benedict Agner
4	Indonesia	Mikael Angelo Ezra Salim
	Oman	Doa'a Sultan Hamed Al Hashmi
	Romania	Matei-Calin Botezat
5	Sri Lanka	Hansanadini Muthumalki Pragnaratne Marasinghe Arachchilage
	Indonesia	Muhammad Dihya Aby Abdi Manaf
	Uzbekistan	Shokhjakhon Gayratov
6	Viet Nam	Minh Tu Nguyen
	Republic of Korea	Jeonghyun Choi

Team No.	Creative Programming		
realli No.	Country/Region	Name	
1	China	Ruchen Ye	
ı	Czech Republic	Marco Velan	
2	Iran	Mobina Ostad	
2	Myanmar	Kay Kay	
3	Japan	Yuki Zeniya	
3	Kazakhstan	Almas Saparov	
4	Turkey	Ufuk Karabağ	
4	Uganda	Hiyab Petros Fitwi	
5	Iran	Mahdiyar Amid Sardari	
Э	Myanmar	Su Wati Hnin	
6	Philippines	Sherwinn Sophia Uson	
	Tunisia	Fayez Zouari	
7	Kenya	Nikhil Jitesh Kanade	

	Turkey	Kerem Çidem
8	Uganda	Melinda Kunihira
	Kenya	Umesh Mukeshkumar Halai
9	Uganda	Darrius Joseph Katumba
	Ukraine	Serhii Lysin

Team No.	Colorful Chemistry		
ream No.	Country/Region	Name	
1	Australia	Peta Jane Smith	
l	Hong Kong, China	Kwan Nok Cho	
2	Republic of Korea	Chanhee Park	
2	Czech Republic	Julie Sklenicková	
3	Australia	Sonia Sharma	
3	Hong Kong, China	Ethan Ng	
4	India	Gargi Bhagwat	
4	Italy	Alessandro Bertoni	
5	Thailand	Kanlayakorn Saneha	
3	Pakistan	Sajjad Waheed	
6	Czech Republic	Tomas Janousek	
0	Pakistan	Afifa Muhammad	
7	Oman	Zakariya Yahya Yaqoob Aamir Alaamri	
,	Japan	Aoto Matsuo	
8	Pakistan	Zehwa Aamir Memon	
0	Republic of Korea	Eunchong Joo	
9	Pakistan	Shahzeb	
9	Thailand	Natnicha Punyainkaew	
10	Serbia	Milica Mačkić	
10	Tajikistan	Abdullojon Ziyaev	
11	Japan	Nagisa Hata	
11	Serbia	Andrea Radosavljevic	
12	Thailand	Apsara Reiter	
12	Zimbabwe	Anesu Mapiro	

Team No.	Airplane Model	
realli No.	Country/Region	Name
	Azerbaijan	Yusif Kazimzade
,	China	Mingqian Li
Į.	Costa Rica	Gerardo Miguel Bonilla Soto
	Czech Republic	Samuel NedĚLa
2	India	Yatish Abhijit Vaidya



	Turkey	Abdulkadir Kalyoncu
	Indonesia	Wardah Fatimah Mas Asih
	Iran	Sarina Vazirimajd
	Kazakhstan	Dinmukhamed Muratov
3	Kenya	Dev Priyash Hirani
	Lao PDR	Santi Keomexay
	Serbia	Vasilije Andrić
4	Myanmar	Aung Thet Oo
4	Philippines	Angelo Ryan Dolina
	Romania	Calin Mihail Ilisei
	Romania	Alexandru Munteanu
5	Myanmar	Han Htet Min
3	Sri Lanka	Gayashan Chatunga Pragnaratne Marasinghe Arachchilage
	Tajikistan	Mirzorakhim Umarov
6	Tunisia	Anes Ernez
	Indonesia	Rafif Muhammad Ransi Anargya
	Turkey	Taha Orkun Ersen

# **Programs for Teacher**

#### **Schedule for Teachers**

Time	Activity	Location	Venue	
Day 1, 24 <sup>th</sup> September				
All-day	Registration (Students and supervisors get their name tags and backpacks at the registration desk.)	Lobby	Hotel	
17:00-19:30	Dinner	Grand Ballroom, 1st floor		
	Day 2	2, 25 <sup>th</sup> September		
06:00-08:00	Breakfast	Café, 1st floor	Hotel	
08:40	Buses leave from	om the Hotel to Nanning No.2 High Sch	iool	
09:30-09:50	Group Photo	Square in front of Qitian Building	Namina	
10:00-10:50	Opening Ceremony	Lecture Hall No.1	Nanning No.2 High	
10:50-11:50	Keynote Speech	Lecture Hall NO.1	School	
12:00-13:00	Lunch	Student Canteen		
13:00	Buses leave from Nanning No.2 High School to Guangxi Science and Technology Museum			
14:00-17:00	Tour	Guangxi Science and Technology	Museum	
17:00	Buses leave from Gua	ngxi Science and Technology Museum t	o the Hotel	
18:30-20:30	Dinner	Nanning Room, 2nd floor	Hotel	
	Day 3	3, 26 <sup>th</sup> September		
06:30-08:00	Breakfast	Café, 1st floor	Hotel	
08:30	Buses leave from the Hotel to Guangxi Science and Technology Museum		gy Museum	
09:30-11:30	Science Education Forum ( Open Forum with Simultaneous Interpretation)	Lecture Hall, 3rd floor of Office Building	Guangxi Science and Technology Museum	
11:30	Buses leave from Guangxi Science and Technology Museum to Nanning No.2 High School			
12:00-13:30	Lunch	Student Canteen	Nanning	

40.00		Group A at 501, Group B at 503,	No.2 High
13:30-15:30		General Technology Classroom	School
45.00.47.00	Workshops	Group A at 503, Group B at 501,	
15:30-17:30	80.00	General Technology Classroom	
18:00-19:00	Dinner	Student Canteen	
19:00	Buses leave fr	om Nanning No.2 High School to the Ho	otel
	Day -	4, 27 <sup>th</sup> September	
06:30-07:30	Breakfast	Café, 1st floor	Hotel
08:00	Buses leave fr	om the Hotel to Nanning No.2 High Sch	ool
09:00-12:00	Workshops	Group A at 501, Group B at 503,	
09.00-12.00		General Technology Classroom	Nanning
12:00-13:30	Lunch	Student Canteen	No.2 High
13:30-17:00	Workshops	Group A at 503, Group B at 501,	School
		General Technology Classroom	
17:00		rom Nanning No.2 High School to the Ho	otel
18:30-22:00	Buffet and Cultural Night	Grand Ballroom, 1st floor	Hotel
	S	5, 28 <sup>th</sup> September	
06:30-08:30	Breakfast	Café, 1st floor	Hotel
08:50	Buses leave from the Hotel to Anthropology Museum of Guangxi		
09:30-11:30	Tour	Anthropology Museum of Gua	
11:30		Anthropology Museum of Guangxi to the	
		Café, 1st floor (Common Food)	
12:00-13:00	Lunch	Specialty Restaurant, 2nd floor (Halal	Hotel
		Food)	
13:30	Buses leave	from the Hotel to Fantawild Asian Legen	d
14:00-19:00	Tour	Fantawild Asian Legend	
19:00	Buses leave	from Fantawild Asian Legend to the Hote	el
		Café, 1st floor (Common Food)	
19:30-20:30	Dinner	Specialty Restaurant, 2nd floor (Halal	Hotel
		Food)	
Day 6, 29 <sup>th</sup> September			
06:30-08:00	Breakfast	Café, 1st floor	Hotel
08:00		om the Hotel to Nanning No.2 High Sch	
	Team Project		Nanning
09:00-12:00	Presentation and	Lecture Hall No.3	No.2 High
	Reviewing		School
12:00	Buses leave fr	om Nanning No.2 High School to the Ho	otel

12:30-14:30	Lunch	Nanning Room, 2nd floor	Hotel
15:00	Buses leave fr	om the Hotel to Nanning No.2 High Sch	ool
16:00-17:30	Awarding Ceremony	Lecture Hall No.1	Nanning No.2 High School
17:30	Buses leave from Nanning No.2 High School to the Hotel		
18:30-20:30	Farewell Banquet	Grand Ballroom, 1st floor	Hotel
Day 7, 30 <sup>th</sup> September			
All-day	(Please be kindly no	Departure ted that all teams need to check out befo	ore 14:00)

#### **Science Education Forum**

#### Speakers:

1. Ms. Zeng Zheng, Deputy Director of Division of Teacher Development, Children & Youth Science Center of CAST, China

Mr. Liu Xin, Sci-class

Title: For the future we share: The Practice of Informal Science Education & Professional Development of Instructors in China

2. Ms. Mendez Calvo Raquel, Head of the Academic and professional evaluation office, CFIA, Costa Rica

Title: CFIA- Steam Initiatives

3. Ms. Zhekeyeva Aizhan, Co-Founder and President of KazRobotics Federation RPA, Kazakhstan

Title: Educational Robotics in Kazakhstan

4. Ms. Nelumika Dilrukshi Dabare Ratnamala, Sri Lanka

Title: Science Education in Sri Lanka

5. Mr. Vitalii Lisovyi, Project Manager of Junior Academy of Sciences of Ukraine

Title: Business Icubator of Junior Academy of Sciences

**6. Ms. Rohaya Husny Pahmy, Research Officer of Universiti Sains Malaysia** Title: University-Industry-Community Collaboration in STE

7. Prof. Laurentiu Dan Milici, vice president of programs for youth, Cygnus Scientific Society - UNESCO Center, Romania

Title: Most important projects carried out by Cygnus Scientific Society - UNESCO Center

8. Mr. Hatem Slimane, President of Tunisian Association for Future of Science and Technology

Title: STEAM outside classroom as an amazing experience

#### **Teacher's Workshop**

Location: General Technology Classroom 501 and General Technology Classroom 503, Qitian Building

#### **Topic1: Computational Thinking Workshop**

Instructor: Mr. Xin Liu (Science Class)

Computational thinking is a thinking process that could help teachers and students to understand complex computer science concepts and use coding skills for problem solving. In this workshop we will learn the fundamental methods of computational thinking and see how to use them to design programs to play Go game, tic-tac-toe and even an artificial intelligence solution.

#### Topic2: PBL Course Design on Environmental Protection

Instructors: Ms. Rachel Zhang/Mr. Frank Wang (DF Robot)

"Protecting mother earth" is more than just words but actions. Whether it is the UNESCO Sustainable Development Goals or the recent rubbish classification movement in China, we are all aware of the importance to be the "Earth Guardians" to use sustainable approach when it comes to development. With the advancement of Internet of Things ("IoT") and artificial intelligence, we now have more solutions to environmental protection. In this workshop, we will adopt Project Based Learning ("PBL") course design with the theme of "Recycling Resources", combining open source hardware such as Mciro:bit and MaQueen robot to have real hands-on experience in creating innovative projects. The participants will be divided into groups to design the solutions for resource recycling, and finally present the prototypes.

In this workshop, you will be able to:

- ✓ Familiar with the five stages of PBL design
- ✓ Experience multiple Micro:bit based fun programming projects
- ✓ Design a MaQueen robot to run, patrol, sing and dance
- ✓ Understand simple IoT technology with fun projects
- ✓ Through teamwork, combined with the knowledge and tools learned, design achievable solutions to help "Recycling Resources"

# Topic3: Getting Started With STEM: An Example Lesson Demonstrating the Process and Language of Instruction

Instructor: Ms. Hayley Brown (iSTEM Australia)

Often as educators often we fall into the trap of wanting to give our students the answers. In this workshop we investigate ways to increase student engagement through two simple engineering tasks.

And perhaps have some fun and excitement on the way. In this workshop you will:

- ✓ Participate as a student in a two-stage engineering challenge
- ✓ Construct and launch a simple paper air propelled rocket
- ✓ Discuss and share with colleagues' techniques that can be used to further engage students
- ✓ Be introduced to ways to increase student awareness of learning.
- ✓ Be introduced to ways to promote your school within the local community

# Topic4: The Interdisciplinary and Project-Based Course Design for Electronics Learning

*Instructor:* Dmitry Maslov (Shenzhen Chaihuo Maker Education)

Developed from real life and with the mathematical knowledge as the basis, the workshop will show the teachers a vivid model of the interdisciplinary and project-based course design. The teachers can plan a lesson outline based on this model. As a result, they will understand how to integrate scientific subjects to traditional subjects and guide students to seek "hows" and "whys" in daily life.

Part 1: Introduction of Grove Zero modules and Code craft

Part 2: Scientific experiment based on mathematical knowledge

Part 3: How to build a project-based lesson

### **Grouping for Teachers**

Group A		
Country/Region	Name	
Azerbaijan	Irada Samadova	
Azerbaijan	Aynur Huseynova	
Cambodia	Chiva Keo	
Cambodia	Bee Sun Ng	
China	Hui Li	
China	Zhang Jianfeng	
Costa Rica	Raquel Mendez Calvo	
Czech Republic	Dusan Kubecka	
Hong Kong, China	Siu Lun Ip	
Hong Kong, China	Yiu Wing Wong	
India	Vijay Vasudeo Bedekar	
India	Sudhakar Chandrayya Agarkar	
Indonesia	Mashudi	
Indonesia	Wiedia Carullina Purwanti	
Indonesia	Mardiana Radjah	
Iran	Marzieh Abedi	
Iran	Kaveh AMIRI	
Iran	Abdollah Bagheri	
Italy	Mauro Grandi	
Japan	Yukihiro Asakawa	
Japan	Gu Shan	
Kazakhstan	Lazzat Kussainova	
Kazakhstan	Aizhan Zhekeyeva	
Kenya	Vibhanshu Sharma	
Kenya	Laban Machooka Chweya	
Lao PDR	Khamphouth Phommasone	

Malaysia	Asharina Fiza Binti Ahmad
Malaysia	Rohaya Binti Husny Pahmy
Myanmar	Phyu Phyu Aye Kyaw
Nepal	Kishor Dahal
Nepal	Khushal Regmi

Group A		
Country/Region	Name	
Oman	Fakhr Yaqoob Amur Al Aamri	
Oman	Dhikra Mohammed Ali Al Harrasi	
Pakistan	Ghulam Muhammad Memon	
Pakistan	Rabel	
Pakistan	Ghulam Abbas Rahar	
Philippines	Vinci Gabumpa	
Republic of Korea	Misoon Kim	
Republic of Korea	Mijeong Song	
Republic of Korea	Hyun Ja Jun	
Republic of Korea	Doyeong Kim	
Serbia	Nela Rodic	
Serbia	Stana Mijic	
Sri Lanka	Lakshmi Ratnamala Meeruppe Gamage	
Sri Lanka	Nelumika Dilrukshi Dabare	
Tajikistan	Madina Shodibekova	
Thailand	Thiti Piankote	
Thailand	Chid Wongyai	
Thailand	Jongjit Sittipri	
Turkey	Zuhal Gön ül Orhan	
Turkey	Çidem Özdemir	
Uganda	Godfrey Mukasa Kakembo	

Uganda	Rashidah Nanyanga
Ukraine	Iryna Bystrova
Ukraine	Vasyl Namoniuk
Uzbekistan	Dilfuza Egamberdieva
Uzbekistan	Gulnora Saitova
Viet Nam	Thuy Van Le
Viet Nam	Thi Minh Nguyen
Zimbabwe	Nicola Jane Willis

# Keynote Speech

#### The Fate of the Universe

#### Abstract

The past decades have witnessed a great success in modern cosmology, manifested by a number of extraordinary astronomical discoveries and observations including the expansion of the universe, the background radiation left over from the Big Bang, the abundance of the 'light elements' Hydrogen and Helium, formation and evolution of large-scale structures and the acceleration of the universe. Yet, the fact that the fate of our universe will be entirely determined by the unknown dark matter (23%) and dark energy (73%) remains to be the most mysterious phenomenon in this century. This introductory talk attempts to address these observational features and fundamental questions about our universe and demonstrate its past, present and future.

#### The speaker



Xiang-Ping Wu is a professor of astrophysics at National Astronomical observatories, Chinese Academy of Sciences (CAS). He has been engaged in doing research on cosmology including gravitational lensing, clusters of galaxies and epoch of reionization. He built the 21 Centimeter Array in the Tianshan Mountains of western China, the first low-frequency radio array dedicated to the detection of the epoch of reionization. He is currently leading the Chinese SKA science team toward transforming our understanding of the universe. Prof. Wu was selected

as the member of CAS in 2011 and has also served as the Dean of the Faculty of Astronomy and Space Science, University of CAS since 2017.

#### **Awards**

Each group will be awarded as Best Maker/ Best Presentation/ Best Teamwork.

#### **Subject Awards**

#### 1. Best Maker Award

Best Maker Award recognizes the best among the outstanding students from around the world who participate in Belt and Road Teenager Maker Camp & Teacher Workshop. The winning groups are selected on the basis of their presentation.

#### 2. Best Presentation

Best Presentation Award recognizes the second best among the outstanding students from around the world who participate in Belt and Road Teenager Maker Camp & Teacher Workshop. The winning groups are selected on the basis of their presentation.

#### 3. **Best Teamwork**

Best Teamwork Award encourages the great efforts and teamwork of outstanding students from around the world who participate in Belt and Road Teenager Maker Camp & Teacher Workshop.

#### **Special Awards**

# 1. Special Award provided by the Junior Academy of Sciences of Ukraine

**Winners:** 15 students (5 from each country) will be selected according to the following criteria.

- Clear project goal and its focus on solving a specific problem (the problem should be defined clearly).
- Understanding industry. Compliance with advanced industry trends.
- Definition of the target market (who may be customer of this product).
- Competitive advantages of your product (benefits (2-3 or more) must be clearly justified with reference to existing analogs).
- Long-term effect of the project

**Prize:** selected students will receive certificates to participate in the Junior Startup Camp and present own projects in the International Forum Innovation Market in Kyiv, Ukraine in October-November 2020

**Expenses:** Accommodation, meal, local transport costs will be covered during the camp.

#### **Junior Startup Camp 2020**

Date: October-November 2020

Place: Kyiv, Ukraine Duration: 7 days

**Number of participants:** 25 (15 international and 10 local school students)

Participants of the Junior Startup Camp 2020 will gain knowledge in the following areas: business, management and teamwork, marketing and investment attraction. The

programme will cover brand creation, brand positioning and marketing strategies for new market players. All teams will receive practical tasks, which will be performed under the mentorship of experienced professionals from leading local and international universities and companies. Upon completion, the participants will present their projects at the International Forum Innovation Market.

International Forum Innovation Market is a meeting place for innovators, inventors, manufacturers and vendors of leading innovative technologies, experts in the innovation field, authors of Startup projects, business representatives, representatives of investment and financial institutions, consultants in the intellectual property protection.

# 2. Special Award provided by the Tunisian Association for the Future of Science and Technology

**Winner**: 1 student will be selected based on the performance during the team project presentation.

**Prize:** The selected student will receive certificate and trophy to participate in International Festival of Engineering Science and Technology in Tunisia (IFEST<sup>2</sup>) in 2020.

**Expenses:** International round trip ticket, accommodation, meal, local transport costs will be covered during the camp.

#### IFEST<sup>2</sup> 2020

Every year, IFEST<sup>2</sup> invites more than 1200 participants coming from more than 20 countries and regions to showcase their work of innovation and invention. It takes place in a different Tunisian city every year over the course of one week and it is also an advertisement opportunity for Tunisian businesses, associations, schools and universities.

### International Participants

Australia Student Muhammad Ahmed, Zayd Maarabani, Samara Ayoubi Peta Jane Smith, Sonia Sharma, Tiarna Lauren Kelly Teacher Kenneth Raymond Silburn, Hayley Anne Brown Volunteer Caiyi Wei +86 18174715483 Azerbaijan Student Leyli Asgarova, Yusif Kazimzade, Najaf Mammadov Sara Mammadova, Fidan Ismayilzada **Teacher** Irada Samadova, Aynur Huseynova Yashar Omarov Volunteer Zhuangmei Liang +86 15977677150 **Cambodia** Student Kongkeachalsak Chea, Mony Meas Chealy Peng, Shukhy Ung Teacher Chiva Keo, Bee Sun Ng Volunteer Lei Lei +86 17736644741 **China** Student Zihao Qin, Shiqian Meng, Jiaxi Sun Mingqian Li, Ruchen Ye, Xinyi Fang, Kaiwen Guo Teacher Hui Li, Jianfeng Zhang Volunteer Yuting Xie +86 15878307225 **Costa Rica** Student Gerardo Miguel Bonilla Soto Teacher Raquel Mendez Calvo Volunteer Sixiang Mo +86 18877346059 **Czech Republic** Student Samuel NedĚLA, Tomas Janousek, Eva Machytkova, Marco Velan Julie SklenickovÁ Jan Netolicka, Dusan Kubecka Teacher Volunteer Shuwen Zeng +86 18378575670

<u>Hong Kong, China</u> Student Kwan Nok Cho, Chak Yin Jalen Fu, Yat Lok Au

Ethan Ng, Chun Kit Wong

**Teacher** Yiu Wing Wong, Siu Lun Ip **Volunteer** Yi Jiang +86 15578968067

<u>India</u> Student Mrunmayi Gangal, Aaboli Ganesh Shinde

Ishan Amit Phanse, Yatish Abhijit Vaidya, Gargi Bhagwat

**Teacher** Vijay Vasudeo Bedekar, Sudhakar Chandrayya Agarkar

**Volunteer** Jiayi He +86 17376075557

<u>Indonesia</u> Student Rafif Muhammad Ransi Anargya, Rafy Adam Fazananda

Wardah Fatimah Mas Asih, Aulia Hilmy Affandy Sitepu Lanang Damar Wicaksana, Mikael Angelo Ezra Salim

Mochammad Elvin Fitrando, Muhammad Dihya Aby Abdi Manaf

Muhammad Khairu, Zulfa Mahiratu Marwa

**Teacher** Indarjani Soegiarto Soeratno, Mashudi

Wiedia Carullina Purwanti, Mardiana Radjah Lukman Nulhakim, Agus Wiyoto Ahmad Suyatno Suci Meika Wardani, Wenny Milasari Prawitokarjo

Dewi Sri Indriati Kusuma

Volunteer Wanting Zhang +86 19978830913

Jiayi Liang +86 18174121307

<u>Iran</u> Student Amirhossein Saedibehrouz, Sarina Vazirimajd

Shayan Dabagh, Mobina Ostad, Mahdiyar Amid Sardari

**Teacher** Marzieh Abedi, Fatemeh Mohajerani, Abdollah Bagheri

Kaveh Amiri

Volunteer Jiuling Chen +86 13877936206

<u>Italy</u> Student Filippo Sonzogni, Alessandro Bertoni, Alessandro Grandi

Teacher Mauro Grandi

Volunteer Weijin Jiang +86 15207756839

<u>Japan</u>	Student	Misato Tomii, Rin Adachi, Yuki Zeniya, Nagisa Hata, Aoto Matsuo
	Teacher	Yukihiro Asakawa, Gu Shan
	Volunteer	Yumei Huang +86 15678993881
<u>Kazakhstan</u>	Student	Dinmukhamed Muratov, Almas Saparov
	Teacher	Lazzat Kussainova, Aizhan Zhekeyeva
	Volunteer	Shizhuo Lin +86 18587760561
<u>Kenya</u>	Student	Nikhil Jitesh Kanade, Neema Juliana Nyakundi
		Ashita Brijeshkumar Patel, Umesh Mukeshkumar Halai
		Dev Priyash Hirani
	Teacher	Vibhanshu Sharma, Jacqueline Alice Akinyi Olang
		Laban Machooka Chweya
	Volunteer	Ruxin Li +86 18878995144
Lao PDR	Student	Chansaveuy Vannavong, Ketdavong Phrasisombath
		Santi Keomexay, Somchay Chaleunphon, Anouphab Siharath
	Teacher	Khamphouth Phommasone
	Volunteer	Boxin Ma +86 15177198804
<u>Malaysia</u>	Student	Muhammad Irfan Haikal Bin Mohd Firdaus
		Muhammad Hazim Aiman Bin Ahmad Nazri
		Muhammad Alif Muazzam Bin Mohd Kauli
	Teacher	Lee Yee Cheong, Asharina Fiza Binti Ahmad
		Norzamani Binti Abdol Hamid, Maharom Binti Mahmood
		Zainon Binti Abd Majid, Rusilawati Binti Othman
		Sharifah Maimunah Binti Syed Zin
		Asharina Fiza Binti Ahmad, Rohaya Binti Husny Pahmy
	Volunteer	Yonglian Qin +86 18074812224



<u>Myanmar</u>	Student	Han Htet Min, Linn Thant, Aung Thet Oo, Kay Kay, Su Wati Hnin
	Teacher	Phyu Phyu Aye Kyaw
	Volunteer	Tianli Shi +86 15177181168
<u>Nepal</u>	Teacher	Kishor Dahal, Khushal Regmi
	Volunteer	Liuting Zeng +86 17707855452
<u>Oman</u>	Student	Doa'a Sultan Hamed Al Hashmi, Zainab Talib Rashid Al-Hashemi
		Zakariya Yahya Yaqoob Aamir Alaamri
	Teacher	Fakhr Yaqoob Amur Al Aamri, Dhikra Mohammed Ali Al Harrasi
	Volunteer	Miao Wang +86 19914908789
<u>Pakistan</u>	Student	Sajjad Hussain, Sajjad Waheed, Zehwa Aamir Memon
		Afifa Muhammad, Shahzeb
	Teacher	Rabel, Ghulam Muhammad Memon, Ghulam Abbas Rahar
		Tasneem Anwar, Saba, Manzoor Hussain Soomro
	Volunteer	He Wei +86 18077807540
<u>Philippines</u>	Student	Angelo Ryan Dolina, Reven Jay Limen, Sherwinn Sophia Uson
		Neil Dustin Benedict Agner, Bryan Justine Dela Cruz
	Teacher	Vinci Gabumpa
	Volunteer	Juan Chen +86 13217713426
Republic of Korea	Student	Jeonghyun Choi, Sangbaek Bang, Jooseong Song
		Chanhee Park, Eunchong Joo
	Teacher	Misoon Kim, Mijeong Song, Hyun Ja Jun, Doyeong Kim
	Volunteer	Yingmei Lu +86 18278464154



<u>Romania</u>	Student	Stefan Gretcan, Calin Mihail Ilisei, Antonie-Rareș Grigoraș
		Alexandru Munteanu, Matei-Calin Botezat
	Teacher	Laurentiu Dan Milici, Mariana - Rodica Milici
	Volunteer	Can Zhou +86 13277832696
Serbia	Student	Vojin Crnogorac, Ana Savić, Andrea Radosavljevic
		Milica Mačkić, Vasilije Andrić
	Teacher	Nela Rodic, Stana Mijic
	Volunteer	Yuyu Tan +86 15278473462
Sri Lanka	Student	Gayashan Chatunga Pragnaratne Marasinghe Arachchilage
		Sayuni Amasha Dabare Hewage
		Hansanadini Muthumalki Pragnaratne Marasinghe Arachchilage
	Teacher	Lakshmi Ratnamala Meeruppe Gamage
		Nelumika Dilrukshi Dabare
	Volunteer	Peixuan Wu +86 18176768969
<u>Tajikistan</u>	Student	Abdullojon Ziyaev, Mirzorakhim Umarov, Sarvinoz Mirvaisova
	Teacher	Parvonakhon Jamshedov, Madina Shodibekova
	Volunteer	Fang Fang +86 15296450585
<u>Thailand</u>	Student	Kanlayakorn Saneha, Kittiyani Sakuna, Natnicha Punyainkaew,
		Apsara Reiter, Jirapak Pulkumlang
	Teacher	Thiti Piankote, Chid Wongyai, Jongjit Sittipri
		Supara Kamolpattana, Peeranut Kanhadilok
	Volunteer	Yuhe Qin Xia +86 18074811713
<u>Tunisia</u>	Student	Anes Ernez, Fayez Zouari
	Teacher	Haithem Ben Hadj Khalifa, Hatem Slimane
	Volunteer	Huanrong Shang Guan +86 15977795952



Turkey Student Abdulkadir Kalyoncu, Ufuk Karabağ, Kerem Çidem Berk Billur, Taha Orkun Ersen Teacher Çidem Özdemir, Zuhal Gönül Orhan Volunteer Guoqing Peng +86 17377158311 Uganda Student Daniella Ruth Nantambi, Melinda Kunihira Hiyab Petros Fitwi, Jamila Sayaka Kariisa Darrius Joseph Katumba Teacher Godfrey Mukasa Kakembo, Rashidah Nanyanga Volunteer Biqi Huang +86 15578955044 Ukraine Student Vladyslav Parfeniuk, Ihor Shybka, Serhii Lysin Oleksandr Levak, Anna Gusak Teacher Vitalii Lisovyi, Iryna Bystrova, Vasyl Namoniuk Volunteer Rui Wei +86 13878807095 Uzbekistan Student Shokhjakhon Gayratov, Farzona Gayratova Asilbek Ilkhombekov, Javokhir Jamshidov Teacher Dilfuza Egamberdieva, Gulnora Saitova Volunteer Xun Deng +86 13878158752 Viet Nam Student Duc Duy Ngo, Chau Linh Nguyen, Phuong Linh Pham Minh Tu Nguyen, Thanh Ha Pham Teacher Thuy Van Le, Thi Minh Nguyen Volunteer Huiqing Huang +86 13649446899 Zimbabwe Student Anesu Mapiro Teacher Nicola Jane Willis Volunteer Yiyi Luo +86 13360040481

# Introduction of Nanning No.2 High School



Nanning No.2 High School is a complete middle school directly under the administration of Nanning Education Bureau, one of the top 100 middle schools in China, one of the first key middle schools and one of the first demonstration high schools approved by the government of Guangxi Zhuang autonomous region. Nanning No. 2 High School was first known as Nanning School founded in 1906. It was renamed in history as follows, Guangxi Provincial No. 1 Middle School, Nanning Middle School, and Nanning High School, and finally received its present name in 1954. It consists of two campuses: Xinmin Campus (Junior High School) covering 68 acres and Fengling Campus (Senior High School) 453 acres. More than 6,000 students are currently studying, the campus has a beautiful environment and first-rate hardware facilities.

Having been run for 100 years, Nanning No. 2 High School formed the people-oriented developing idea that teachers and students develop together with the school, and set the school purpose of "Setting up a famous school in its region and constructing high-quality education to repay the society". With the motto of "inspire wisdom, invigorate mind



and body", it has sent tens of thousands of outstanding graduates to all walks of life. The school educational and scientific researches and teaching reforms have achieved remarkable success. It won a variety of titles such as "National Ethics Construction Advanced School", "National Psychological Counseling Characteristic School", "National Education System Advanced Collective", "Model School for National Unity and Progress", "National Advanced School of Mass Sports Work". There are 423 faculty members in the school, including 382 teachers, 1 professor, 4 professional senior teachers, 126 senior teachers, 19 inservice special-grade teachers (excluding hired staff), and the number of special-grade teachers ranks first in Guangxi middle schools. It is a modern, ecological and digital demonstration middle school, which is also top-ranking and well-known in the country and region.



## Descriptions of Attractions in Nanning

#### **Guangxi Science and Technology Museum (GSTM)**



Guangxi Science and Technology Museum, also with the plate of "Guangxi Youth Science and Technology Center", is the largest science popularization and education base and non-profit public culture popularization facility in the Guangxi Zhuang Autonomous Region. It is one of the important platforms for China (Guangxi) to carry out scientific and cultural exchanges, science popularization activities and youth science and technology education activities with ASEAN countries. In December, 2009, it was awarded the National 4A Tourist Attraction; and in February, 2015, it was awarded the national civilized unit.

Guangxi Science and Technology Museum (the old one), completed and opened in early 1983, is one of the earliest science and technology museums in China. Guangxi Science and Technology Museum (the new one), a key project for the 50th anniversary of the founding of the Autonomous Region, was completed and opened to the public on December 5, 2008. The new one has a total building area of 38988 m2 and is located in Nanning, which is the capital of Guangxi and also the political, economic and cultural center of Guangxi. With the theme of "exploration, science and technology, innovation", Guangxi Science



and Technology Museum has a permanent popular science exhibition hall, an exhibition center, a youth science workshop, a high-tech movie theater, an academic exchange area and other main functional areas, and it receives more than 1,000,000 person-times every year on average.

Guangxi Science and Technology Museum, adhering to the working style of "Great Collaboration and Cooperation", deeply implements the youth science and technology education work, perennially organizes and launches such featured brand activities as adolescent science and technology innovation contest, robotics competition, adolescent science festival, itinerant exhibition of China mobile science and technology museum in the whole Guangxi Region, and invention demonstration unit of primary and secondary school students, so as to lead, demonstrate and promote the vigorous development of youth science and technology education activities in the whole Region.

#### **Anthropology Museum of Guangxi**



Located on the bank of Yongjiang River, built in December 2008 and opened to the public free of charge on May 1 2009, Anthropology Museum of Guangxi is a special museum displaying ethnic culture. It is now a national first-class museum, a national civilized unit, a national base for national unity and progress education, a national practice base for primary and secondary school students' research and education, and a national 4A-level tourist attraction. It receives more than 1 million visitors every year. The Museum covers an area of 33,000 square meter. The existing collections include ancient bronze drums, ethnic costumes, brocade embroidery, production and living utensils, folk crafts, and residential buildings. It has six permanent exhibitions: "Drum Sound through Time and Space - Bronze Drum Culture", "Colorful Eight Gui-Guangxi National Culture Exhibition", "Zhuang Nationality Culture Exhibition", "Colorful China-Chinese Nation Culture Exhibition", "Colorful World-World National Culture Exhibition", "Yesterday Reproduced-Century Old Objects Exhibition".



#### **Fantawild Asian Legend**



Jointly invested by Fantawild Holdings Inc. and Nanning Qingxiu Mountain Tourism Development Co., Ltd., Fantawild Asian Legend is a high-tech theme park built around the unique and distinctive cultures of ten different countries throughout Southeast Asia. The park features state-of-the-art 3D indoor track rides as well as theaters boasting huge spherical screens and phantom imaging technology, presenting to audiences with the splendid scenery, rich history, and vibrant cultures of Southeast Asia by seamlessly combining live-action with state of the art special effects.

#### Belt and Road Initiative



The Belt and Road Initiative –China's proposal to build a Silk Road Economic Belt and a 21st Century Maritime Silk Road in cooperation with related countries –was unveiled by Chinese President Xi Jinping during his visits to Central and Southeast Asia in September and October 2013. The initiative focuses on promoting policy coordination, connectivity of infrastructure and facilities, unimpeded trade, financial integration, and closer people-to-people ties through a consultative process and joint efforts, with the goal of bringing benefits to all. The initiative covers primarily East Asia, Southeast Asia, South Asia, West Asia, Central Asia, and Eastern Europe. It reflects a convergence of interests and an increasing need for regional and global cooperation.

# About Children and Youth Science Center of CAST

#### Introduction

Children & Youth Science Center (CYSC), a non-profit organization affiliated to China Association for Science and Technology (CAST), was founded in 1978. CYSC is committed to engaging the public with science and technology and inspiring innovation in young generation through science education programs and public events. CYSC, together with provincial branches, science museums and STE centers have made up a nationwide network for informal science education and science popularization events in China.

#### **Objectives and Tasks**

- Cultivating the adolescents in science and innovation
- ➤ Inspiring the adolescents with science and innovation
- Improving science literacy of the public
- Enhancing communication and cooperation in science education

#### **Main Programs**

- Awarding Program for Future Scientists (APFS)
- China Adolescent Science and Technology Innovation Contest (CASTIC)
- China Adolescent Robotics Competition
- National Youth University Science Camp
- Science Talent Program

- Opening Tiangong Dream
- Bridging Science Museum with Schools
- The Adolescents Scientific Investigation Experience Program
- China Adolescents Science Video Festival
- National Science Communication Day
- Science for Community
- Adolescent and Non-Formal Education
- Exploration Program
- ➤ Hand in Hand Science Report Activities
- ➤ Belt and Road Teenager Maker Camp & Teacher Workshop
- > Internship for Undergraduates from HK, Macau and Taiwan

#### **Official Website**

http://www.cyscc.org.cn/



# About Nanning of Guangxi Zhuang Autonomous Region



Guangxi Zhuang Autonomous Region (short for "Gui") is one of the five autonomous regions for the ethnic minorities in China, and is the common homeland where multi-ethnic groups live in harmony. It covers an area of 237,600km², including 14 cities, 111 counties (cities or districts). The region has a population of more than 56 million, comprising nationalities of Zhuang, Han, Yao, Miao, Dong, Yi, Mulao, Maonan, Hui, Jing, Shui and Gelao. Among them, people of the Zhuang nationality accounts for about 31.54%, which is the largest minority group in China.

Guangxi is the forefront and window for China's opening-up to and cooperation with ASEAN countries. It is located at the junction of South China economic circle, Southwest China economic circle and ASEAN economic circle, with a coastline length of 1628.59 kilometers and a land boundary line length of about 1020 kilometers. In Guangxi, there are eight counties (cities or districts) bordering Viet Nam, and it is the only province in West China that is located along both the coast and the border.

Nanning, short for "Yong", is the capital of Guangxi Zhuang Autonomous Region, the political, economic, transportation, science, education, financial and information center of the whole Region, the frontier city of China's opening-up and cooperation with ASEAN countries, the permanent host city of China-ASEAN Expo, a core city of the Beibu Gulf Economic Zone, and an important portal city for the organic link of the "Belt and Road". Nanning is known as the "green city of China", and has won the titles such as "UN Habitat Award", "National Civilized City" and "National Ecological Garden City". The annual Nanning International Folk Song Arts Festival enjoys a great reputation both at home and abroad, making Nanning become "the place to which the world's folk songs are attached".

Nanning covers an area of 22,100km² and has a permanent population of more than 7 million. Nanning enjoys a superior geographical position. It is located in south Guangxi, the subtropical zone and south of the tropic of Cancer and at the junction of South China, Southwest China and China-ASEAN economic circle, faces Southeast Asia and is adjacent to the Great Southwest. Besides, it is close to Guangdong, Hong Kong and Macao in the east and Beibu Gulf in the south; it is located at the junction of South China economic circle, Southwest China economic circle and ASEAN economic circle and also the meeting point of such regional cooperation as Pan-Beibu Gulf Economic Cooperation, Greater Mekong Sub-regional Cooperation and Pan-Pearl River Delta Cooperation.

# 40 Daily Chinese-English Expressions

1, 你早! (Nǐzǎo)

Good morning!

2, 你好! (Nǐ hǎo)

Hello!

3, 晚上好! (Wǎn shàng hǎo)

Good Evening!

4, 晚安 (wǎn ān)

Good Night.

5, 初次见面,请多关照 (chū cì jiàn miàn,qǐng duō guān zhào)

Nice to meet you.

6, 欢迎再来 (huān yíng zài lái)

Hope to see you again.

7, 欢迎光临 (huān yíng guāng lín)

Welcome you.

8, 请进 (qǐng jìn)

Come on in, please.

9, 请您等一下 (qǐng nín děng yí xià)

Could you wait for a second, please?

10, 再见 (zài jiàn)

Goodbye.

11, 请 (qǐng)

Please!

12, 谢谢 (xiè xiè)

Thank you.

13, 不用谢 (bú yòng xiè)

You are welcome.

14, 对不起 (duì bù qǐ)

I am sorry.

15, 我叫... (wǒ jiào)

My name is .....

16, 您叫什么名字? (Nǐ jiào shén me míng zi?)

What is your name, please?

17, 请再说一遍 (qǐng zài shuō yí biàn)

Could you repeat that, please?

18, 请您再慢一点说 (qǐng nín zài màn yi diǎn shuō)

Can you speak a little slower, please?

19, 知道了 (zhī dào le)

I see.

20, 这是... (zhè shì)

This is.....

21, 几点? (jǐ diǎn)

What time is it?

22, 多长时间? (duō cháng shí jiān?)

How long will it take?

23, 多少? (duō shǎo?)

How much (many)...?

24, 去哪里? (qù nǎ lǐ?)

Where are you going?

25, 多远? (duō yuǎn?)

How far is it?

26, 您好啊 (nín hǎo a)

How are you?

27, 好/不好 (hǎo/bù hǎo)

Good / bad

28, 对/不对 (duì/bú duì)

Right/wrong

29, 贵/便宜 (guì/pián yi)



Expensive/cheap

30, 快/慢 (kuaì/màn)

Fast/slow

31, 冷/热 (lěng/rè)

Cold/hot

32, 大/小 (dà/xiǎo)

Big/small

33, 高/低 (gāo/dī)

High/low

34, 明亮/暗 (míng liàng/àn)

Light/dark

35, 能够见面很高兴 (néng gòu jiàn miàn hěn gāo xìng)

Nice to see you.

36, 恭喜 (gōng xǐ)

Congratulations!

37, 请先走 (qǐng xiān zǒu)

After you!

38, 干杯 (gān bēi)

Cheers!

39, 我要去... (wǒ yào qù)

I am going to...

40, 在哪里能买票? (zài nǎ lǐ néng mǎi piào?)

Where can I buy the tickets?