

2 weeks Training at

Telemedicine Development Center of Asia
(TEMDEC)

November 9th to November 20th

Mohammad Rafizan Ramliy
Universiti Putra Malaysia

Profile

TEMDEC
Telemedicine Development Center of Asia

アジア遠隔医療開発センター
TELEMEDICINE DEVELOPMENT CENTER OF ASIA

- Name : Mohammad Rafizan Ramliy
- Institution : Universiti Putra Malaysia
- Designation : Engineer
- Period of training : November 9th to November 20th
- Place of training : Telemedicine Development Center of Asia (TEMDEC)
Kyushu University Hospital, Fukuoka, Japan



About

Universiti Putra Malaysia (UPM)

- General :
 - Public and research university
 - UPM has 16 faculties
 - Located at Serdang, Selangor, Malaysia



About

Infocomm Development Centre (IDEC)

- Center for IT Services
 - responsible to plan, develop and implement ICT activities and projects for university
- Human-computer interaction & multimedia
 - AV Broadcasting Section
 - Video conferencing



About

TEMDEC

- **General :**

- Under International Medical Development, Kyushu University Hospital
- Focus on Remote Education and Developing Technologies



- **Main activities :**

- Remote medical education
- Remote patient care
- Development and application of new technologies
- Development of interesting content
- Secretariat of the Medical Working Group of Asia-Pacific Advanced Network
- Center for international exchange programs

Content of training

- How is the telemedicine event realized
- Required quality for Telemedicine
- Teleconferencing Systems
- Technical preparations
- How to work on problems



Activities

- Join the 9th Asia Telemedicine Symposium (ATS) - *through video conferencing*

Date : 13th and 14th November 2015

Venue : Chungbuk National University Hospital , South Korea

The poster for the 9th Asia Telemedicine Symposium (ATS) features a blue and white color scheme with a background of a globe and abstract lines. It includes logos for TEMDEC, MedRIC & PSM, and Chungbuk National University. The text provides details about the event, including the dates (November 13 and 14, 2015), the venue (Chungbuk National University Hospital, Auditorium, West Building 9th Floor, Cheongju, South Korea), and the registration fee (50,000 KRW (Waive)). The program is divided into two main sessions: I. Engineering Session and II. Subject Session. The Subject Session includes two topics: 1. Telemedicine and 2. Smart Working Environment for Public Health Crisis. The poster also mentions that the symposium is co-organized by the European Union and lists the main organizers and sponsors.

The 9th Asia Telemedicine Symposium

Date: November 13 (Fri) and 14 (Sat), 2015
Venue: Chungbuk National University Hospital, Auditorium, West Building 9th Floor, Cheongju, South Korea
Registration Fee: 50,000 KRW (Waive)

Asia Telemedicine for Public Health Crisis

Programme

I. Engineering Session

II. Subject Session

1. Telemedicine

- Seoul National University Bundang Hospital
- Hansang University Medical Center
- Asan Medical Center
- Chungbuk National University Hospital

2. Smart Working Environment for Public Health Crisis

- Hospital Infection
- Community Infection
- Public Official Group
- Research Group

Main Organizers:
Chungbuk National University Hospital, Korea
Chungbuk National University, Korea
Telemedicine Development Center of Asia, Kyushu University Hospital, Japan

Sponsors and Supporters:
European Commission
TEM Project
TEM Cooperation Center

Activities

TEMDEC
Telemedicine Development Center of Asia

アジア遠隔医療開発センター

TELEMEDICINE DEVELOPMENT CENTER OF ASIA



TECHNICAL UNIVERSITY OF DENMARK MedRIC & PSM TEMDEC CHUNGBUK NATIONAL UNIVERSITY HOSPITAL

The 9th Asia Telemedicine Symposium

Date: November 13 (Fri) and 14 (Sat), 2015
Venue: Chungbuk National University Hospital, Auditorium, West Building 9th Floor, Cheongju, South Korea
Registration Fee: 50,000 KRW (Waive)

Asia Telemedicine for Public Health Crisis

Programme

- I. Engineering Session
- II. Subject Session
 1. Telemedicine
 - Seoul National University Bundang Hospital
 - Hawang University Medical Center
 - Asia Medical Center
 - Chungbuk National University Hospital
 2. Smart Working Environment for Public Health Crisis
 - Hospital Infection
 - Community Infection
 - Public Official Group
 - Research Group

Host organization: Chungbuk National University Hospital, Korea; Chungbuk National University, Korea; Telemedicine Development Center of Asia, Kyushu University Hospital, Japan

Organized and supported by: European Commission, TEM Project, TEM Cooperation Center

TEIN TEIN This symposium is co-funded by European Union

Activities

- Information on Telemedicine setup at another hospital from other country

Date : 13th November 2015 (Day 1)

Venue : Chungbuk National University
Hospital , South Korea

- *join this session through video conferencing from TEMDEC*

The 9th Asia Telemedicine Symposium

Asia Telemedicine for Public Health Crisis

Programme

I. Engineering Session

II. Subject Session

1. Telemedicine

- Seoul National University Bundang Hospital
- Hanyang University Medical Center
- Aomori Medical Center
- Chungbuk National University Hospital

2. Smart Working Environment for Public Health Crisis

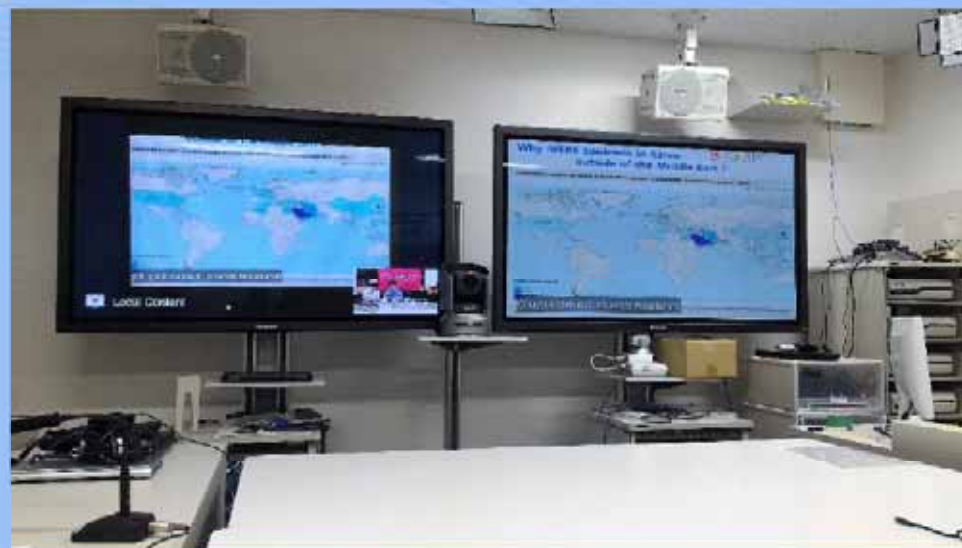
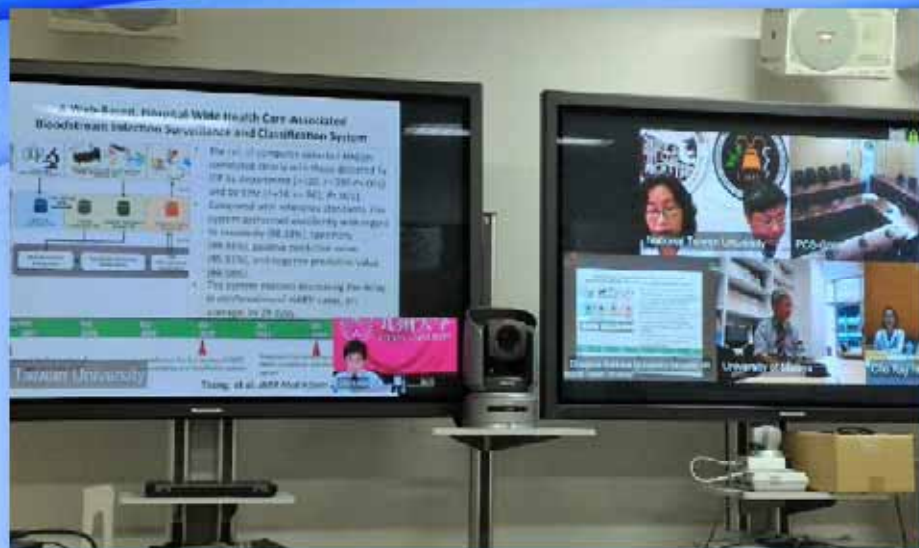
- Hospital Infection
- Community Infection
- Public Official Group
- Research Group

Host organizations

- Chungbuk National University Hospital, Korea
- Chungbuk National University, Korea
- Telemedicine Development Center of Asia, Kyushu University Hospital, Japan

Sponsoring and supportive

- European Commission
- TEIN Project
- TEIN Cooperation Center



Activities

- Join the APAN Technical Review session
 - Discussion about technical issue and Problem solving for previous 40th APAN Meeting 10-14 August 2015 at Kuala Lumpur Malaysia
 - Focus on ECE and HPB meeting

Date : 13th November 2015 (Day 2)

Venue : Chungbuk National University Hospital , South Korea

- join this session through video conferencing from TEMDEC



The 9th Asia Telemedicine Symposium

Date: November 13(Fri) and 14(Sat), 2015
 Venue: Chungbuk National University Hospital, Auditorium, West Building 9th Floor, Cheongju, South Korea
 Registration Fee: 50,000 KRW (Craite)

Asia Telemedicine for Public Health Crisis

Programme

I. Engineering Session

II. Subject Session

1. Telemedicine

- Seoul National University Bundang Hospital
- Hanyang University Medical Center
- Aomii Medical Center
- Chungbuk National University Hospital

2. Smart Working Environment for Public Health Crisis

- Hospital Infection
- Community Infection
- Public Official Group
- Research Group

TEIN TEIN
This symposium is co-funded by European Union

Host organizations
 Chungbuk National University Hospital, Korea
 Chungbuk National University, Korea
 Telemedicine Development Center of Asia, Kyushu University Hospital, Japan

Sponsoringal supporters
 European Commission
 TEIN Project
 TEIN Cooperation Center

APAN tech review

ECE and HPB session

Kyushu U Hosp, TEMDEC Kuriko Kudo

VINAREN Cao Duc Minh



APAN technical review : ECE

Institution	C	Problem [Network, Audio, Image, Other]
U of Malaya	MY	
U of Adelaide	AU	Sound level was a little bit low.
Changl General Hosp	SG	Echo from them.
Singapore General Hosp	SG	There were latency and they couldn't receive sharing contents because of network problem.
Tan Tock Seng Hosp	SG	They couldn't receive sharing contents.
Deenanath Mangeshkar Hosp	IN	Howling and echo from them.
Baldota Institute of Digestive Science	IN	Echo from them, poor sound quality. Sometimes we couldn't hear their sound.
ILBS	IN	There were latency because of network problem.
AHG	IN	
Konkuk U	KR	Sound level a little bit high. The image was poor, because they shoot the monitor by webcam.
Metropolitan Hosp	PH	Couldn't connect.
Dalo U Hosp	NO	
Cho Ray Hosp	VN	No problem, but we can't talk with engineer in English.
Nagoya U	JP	
National Cancer Center	JP	
Kyushu University Hosp	JP	



APAN technical review : HPB

Institution	C	Problem [Network, Audio, Image, Other]
U of Malaya	MY	Their power was down just before starting. All remote sites were kept waiting. When they connected again, the audio was not good and the standard level of audio was changed.
Sunway Med Centre	MY	No problem. But there was no doctor.
GB Pant Hospital	IN	Because of network problem, their sending was not good and also they disconnected sometimes. When they connected again, the audio was too big.
Beijing Cancer Center	CN	
SNUBH	KR	
Kathmandu Model H	NP	
Viet Duc Hosp	VN	They connected just before the event. Couldn't test enough. Their audio was too noisy, we muted them during event.
National Kidney and Transplant Institute	PH	The sound level was very low. Because there was no engineer during event, we couldn't communicate with them.
St. Luke's Med Center	PH	Couldn't connect because of network problem.
Airlangga U	ID	The sound level was very low. Because there was no engineer during event, we couldn't communicate with them.
Hokkaido U	JP	
Chiba U	JP	



Activities

- Learn how to handle the AV system in the TEMDEC Meeting room
 - Lot of AV and VC system integration (input and output system)
 - Learn how to use H.323 Polycom system and VidyoRoom 230
 - Learn how to use VidyoDesktop for video conferencing event or meeting

TEMDEC

主として使用しているテレビ会議システム

DVTS

- 低圧縮、低遅延
- 高帯域が必要

WIDE プロジェクトにおいて
1998年より開発が行われているフリーソフト

Polycom, Lifesize, Sony などで製造



H.323

- 高普及率
- 高価格

用途や、接続先のネットワーク・機材環境に応じ
複数のテレビ会議システムを使い分け
高品質の医療カンファレンスを実現

H.264準拠のマルチポイントテレビ会議システム
インターネット, 3G/4G, Wi-Fi, WiMAXで使用可

Vidyo

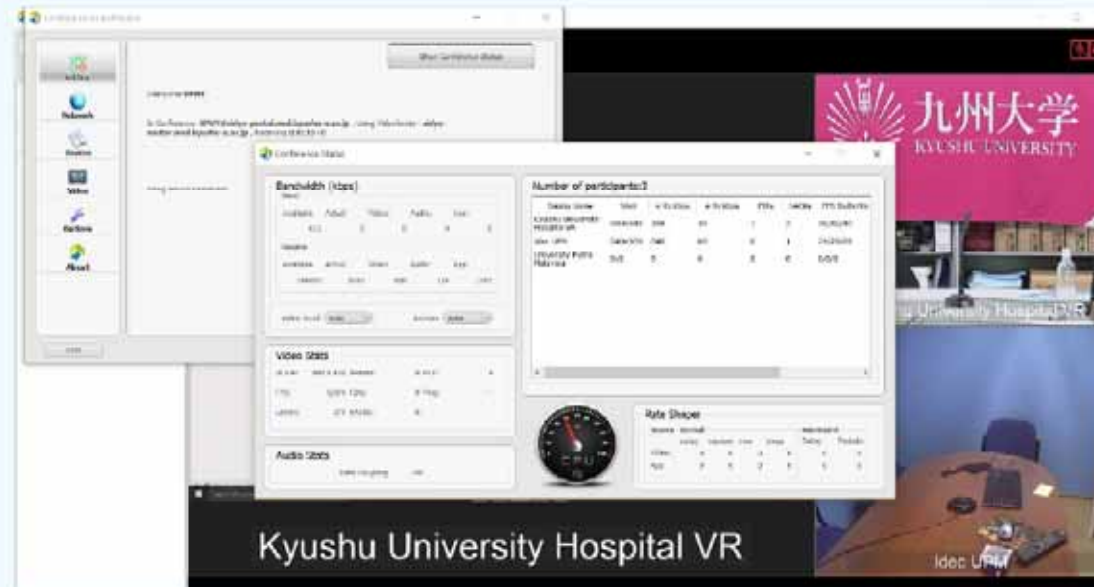
- 低帯域で高品質
- 接続が容易

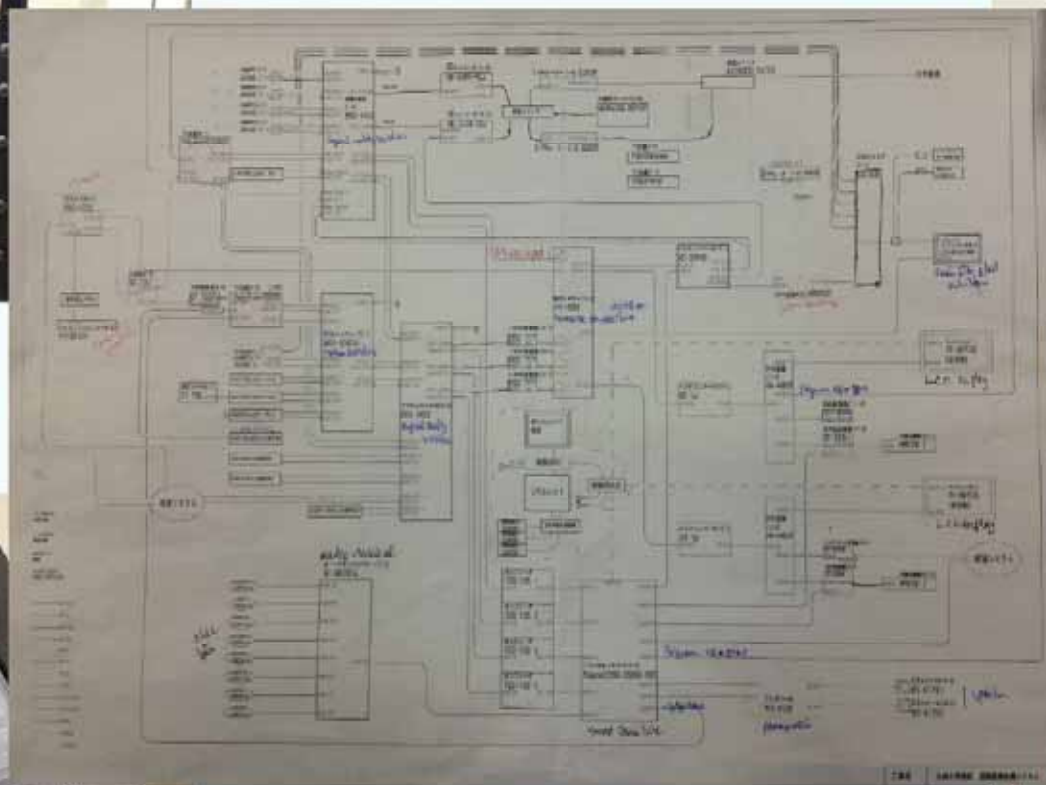



Activities

AV Equipmenet







Out from TEMDEC

- Visiting interesting places in Fukuoka
- Some experience with the police in Fukuoka
- Foods in fukuoka

Out from TEMDEC



..arriving at Fukuoka airport at 8 Nov 2015



This is where I stay during the training

Out from TEMDEC



Out from TEMDEC

Visiting and having picnic at Kaizuka Koen park



Out from TEMDEC

Illumination at Hakata Station



Out from TEMDEC

SHINKANSEN



Out from TEMDEC

Kokura Castle



Out from TEMDEC

Mojiko Retro and Shimonoseki

サンテンバス 乗車券

御裳川 ↔ 唐戸
片道1回限り有効



有効期限 平成27年11月30日迄
No. 11343

関門汽船 乗車券

門司港 ↔ 下関唐戸
片道1回限り有効



有効期限 平成27年11月30日迄
No. 11343

関門海峡 大人 800円
クローバーきっぷ2015



北九州銀行レトロライン
門司港レトロ
観光列車「潮風号」
乗車券



九州鉄道
記念館駅

関門海峡
めかり駅

片道1回限り有効

有効期限 平成27年11月29日迄

乗車印

No. 11343

TEMDEC
Telemedicine Development Center of Asia

アジア遠隔医療開発センター

TELEMEDICINE DEVELOPMENT CENTER OF ASIA

Out from TEMDEC



Out from TEMDEC

West Udon



Out from TEMDEC



..lost my money. Went to police station (lost and found office) with Chiharu Kodama.



Out from TEMDEC

Lucky me, they found the money.



Conclusion

Learn a lot of thing, such as :

- Gain experience in technical setup in Telemedicine System
- Enhance my knowledge and skill in videoconferencing
- Develop skill in communication with other engineers and doctors

Acknowledgement

- Special thanks to Dr Shimizu and all TEMDEC team for their supports

