Conference Proceedings 2018

# THEICETS

Research Conference Proceedings 2018

# International Academic Multidisciplinary Research Conference 2018

# **Proceeding of**

INTERNATIONAL BUSINESS ECONOMIC TOURISM SCIENCES TECHNOLOGY HUMANITIES SOCIAL SCIENCES AND EDUCATION RESEARCH CONFERENCE

Vienna, Austria 1–3 March, 2018

# THE 2018 ICBTS



Edited by Kai Heuer, Wismar University, Germany
Hiromi Ban, Nagaoka University of Technology, Japan
Ali Fuat Guneri, 1Yildiz Technical University, Turkey
Vipin Nadda, University of Sunderland, United Kingdom
Chayanan Kerdpitak, ICBTS Conference & Publication, USA.

ISBN 978-616-406-840-8 (electronic book)

# **Conference Proceedings**

# INTERNATIONAL BUSINESS ECONOMIC TOURISM SCIENCES TECHNOLOGY HUMANITIES SOCIAL SCIENCES AND EDUCATION RESEARCH CONFERENCE

Vienna, Austria 1-3 March, 2018

# THE 2018 ICBTS

# Organised by

ICBTS Conference Center & IJBTS International Journal of Business Tourism and Applied Sciences

In Academic Scholars Cooperation with









Wismar University

Lincoln University

Hamdan Bin Smart University Suan Sunandha Rajabhat University

Sponsored by







Ryerson University

University of Sunderland

Thai Airways International

Edited by

Kai Heuer, Wismar University, Germany Chayanan Kerdpitak, ICBTS Research & Publication, USA Hiromi Ban, Nagaoka University of Technology, Japan Ali Fuat Guneri, 1Yildiz Technical University, Turkey Vipin Nadda, Universsisty of Sunderland, United Kingdom

Published by ICBTS Conference & Publicaion, 225 Wilmington, West Chester Pike, Chadds Ford, PA 19317, USA

Abstracting and nonprofit use of the material is permitted with credit to the source. Instructors are permitted to photocopy isolated articles for noncommercial use without fee. The authors have the right to republish, in whole or in part, in any publication of which they are an author or editor, and to make other personal use of the work. Any republication or personal use of the work must explicitly identify prior publication in Proceedings of Abstracts and Papers (on CD-ROM or flash drive) of the International Business and Economics Research Conference, International Social Sciences Humanities and Education Research Conference, International Tourism Transport and Technology Research Conference (C. Kerdpitak, K. Heuer, E. Soltani, G. Nartia Editors) including the page numbers.

Proceedings of Abstracts and Papers (on CD-ROM or flash drive) of The International Business Economics Tourism Transport Technology Social Sciences Humanities and Education Research Conference

### Copyright@2018

By Dr. Chayanan Kerdpitak & Professor Dr. Kai Heue & Professor Dr. Ebrahim Soltani, ICBTS Institute Conference Center & IJBTS International Journal of Business Tourism and Applied Sciences

All rights reserved

All papers in the proceedings have been peer reviewed by experts in the respective fields responsibility for the contents of these papers rests upon the authors.

ISBN 978-616-406-840-8 (electronic book)

Published by ICBTS Conference & Publication

225 Wilmington, West Chester Pike,

Chadds Ford, PA 19317, USA

#### INTRODUCTION

We would like to welcome our colleagues to the International Business Education Social Sciences Humanities Tourism Transport Technology Research Conference. It is the nine series in 2017 of Conference on Business Tourism and Apply Sciences was held in Paris. As always many members of the ICBTS 2017 community look forward to meeting, sharing and exchanging their research ideas and results in both a formal and informal setting which the conference provides. Likewise, the concept of alternating the international conference every one month on April to October between Europe and the rest of the world is now well established. This year's event in Madrid (Spain) London (UK) Las Vegas (USA) Munich (Germany) Amsterdam (Netherlands) Zurich (Switzerland) London (United Kingdom) Berlin (Germany) Paris (France) and another continues with the cultural following the very successful and productive event held in London in February 2018 in the field of various types for international academic research conference on Business Education Social Sciences Humanities and Technology. As usual The ICBTS 2018 brings together leading academics, researchers and practitioners to exchange ideas, views and the latest research in the field of Business Tourism and Apply Sciences

The theme of this event The 2017 ICBTS International Business Tourism Social Sciences Humanities and Education Research Conference is "Opportunities and Development of Global Business Economics Social Sciences Humanities and Education" It is also represents an emerging and highly challenging area of research and practice for both academics and practitioners a like, The current industrial context is characterized by increasing global competition, decreasing product life cycles, Global Business, Tourism Development, Social Sciences Humanities Education Apply Sciences and Technology collaborative networked organizations, higher levels of uncertainties and, above all, and customers In our view holding this event in Paris represents a timely opportunity for academics and researchers to explore pertinent issues surrounding Business Economics Tourism Social Sciences Humanities Education Sciences and Technology.

Potential authors were invited to submit an abstract to the International Conference Session Chairs. All abstracts were reviewed by two experts from the International review committee and final papers were further reviewed by this volume with 30 contributing authors coming from 18 countries. This book of proceedings has been organized according to following categories:

- Business
- Management
- Marketing
- Accounting
- Financial
- Banking
  - Economic
  - Education
  - Marketing
  - Logistics Management
  - Social Sciences
  - Supply Chain management
  - Industrial Management
  - Information Technology
  - Sciences Technology
  - Transport and Traffic
  - Tourism Strategic
  - Tourism Management
  - Tourism Marketing
  - Tourism Development Policy and Planning
  - Technology Application
  - Communication and Sciences
  - Humanities
  - Health care Management
  - Hospitality Management
  - Hotel Management

## INTERNATION ADVISORY COMMITTEE

# **Academic Advisory Chairs**

#### Prof. Dr. Kai Heuer

Wismar University of Business School, Germany Studiengangsleiter Master Betriebswirtschaft ABWL/Controlling Hochschule Wismar Fakultät für Wirtschafts wissenschaften Philipp-Müller-Str. 14 23966 Wismar Haus 19, Raum 113 phone: +49 (3841) 753 – 7578

# Conference Coordinator

# Dr. Chayanan Kerdpitak

ICBTS Conference & Publication Pennsylvania, USA Tel.+01 087 0287 287 (International Phone)

## **Proceeding Editors**

Prof. Dr. Hiromi Ban

Nagaoka University of Technology, Nagaoka, Niigata, Japan Email: je9xyp@yahoo.co.jp

#### Proceeding Editors &

Program Chair

Dr. Vipin Nadda

University of Sunderland, United Kingdom Phone 02075317333 Email: vipin.nadda@sunderland.ac.uk

# INTERNATIONAL COMMITTEE

#### INTERNATIONAL ADVISORY COMMITTEE

Wittaya Makkham, Suan Sunantha Rajabhat University, Thaland Gilbert Nartea, Lincoln University, New Zealand Lee Li, York University, Canada Susan L. Solis, Asian Institute of Tourism, University of the Philippines Kamon Budsaba, Thammasart University, Thailand Aruna Apte, Naval Postgraduate School, USA Hiromi Ban, Fukui University of Technology, Japan Vipin Nadda, University of Sunderland, London UK Bahadir Gulsun, Yıldız Technical University, Turkey Ali Fuat Guneri, Yıldız Technical University, Turkey Hen Friman, Holon Institute of Technology, Isreal Mohammad Bader Al-Badarneh, Amman University Jordan Douglas J Marshall, USA, Southern University, New Orleans, USA. Raef Jiries Assaf, Devry University, Corona USA. Cormac Doran, Institute of Technology Blanchardstown, Ireland

## ACADEMIĆ REVIEW COMMITTEE

Kai Heuer, Wismar University of Business School, Germany
Ebrahim Soltani, University of Kent, Canterbury, UK
Tariq Khan, Brunel University, London, UK
Chayanan Kerdpitak, ICBTS Publication, USA.
Gilbert Nartea, Lincoln University, New Zealand
Marian S. Stachowicz, University of Minnesota, USA
Per Engelseth, Molde University College, Norway
Phaopak Sirisuk, King Mongkut's Institute of Technology Ladkrabang, Thailand
Susan L. Solis, Asian Institute of Tourism, University of the Philippines
Kamon Budsaba, Thammasart University, Thailand
Aruna Apte, Naval Postgraduate School, USA
Vinod Singhhal, Georgia Institute of Technology, USA
Hiromi Ban, Fukui University of Technology, Japan
Vipin Nadda, University of Sunderland, London UK

## ORGANIZING BY

ICBTS Conference & Publication, USA

#### SPEAKER BACKGROUND



Professor Dr. Ebrahim Soltani

Prof. Dr. Ebrahim Soltani is a Professor of Business School at University of Kent Canterbury in England and he is Department Chair - Quality & Operations Management at Hamdan Bin Mohammed Smart University Dubai of United Arab Emirate He was appointed associate professor in business management, total quality management, and operation management in 1989 at the University of Kent, he continued his research in the field of operation management, business management. He has published over 50 papers and reports in such journals as International Journal of Technology and Production Research. He supervised a considerable number of PhD theses and is a consultant on industrial and production industry in England and United Arab Emirate.

## SPEAKER BACKGROUND



Professor Dr. Kai Heuer

Prof. Dr. Kai Heuer is full professor for business administration at the Business Faculty of Wismar University in Germany. Before, he served as a full professor at the Environmental Campus of Trier University of Applied Sciences. He studied business administration in Germany and the U.S.A. and holds an MBA and a doctoral degree. He has management experience from leading positions in different companies and as business consultant. His research areas are management accounting, organizational development, and international management where he has published numerous papers, reports and textbooks. He is the head of Master Program in Business at Wismar University and a member of the Schmalenbach-Society for Business Economics, Cologne; managing director of the Institute of Health, Senior-and Social Management; and a former member of the board of the Centre for Aviation Law and Management.

#### SPEAKER BACKGROUND



Dr. Tariq Khan

Dr Tariq Khan is a Lecturer and Director of Postgraduate Programmes of Business School in Brunel University, Uxbridge, London, United Kingdom. He received his BEng in Aerospace Engineering from Kingston University, his MSc in Manufacturing Technology from University of Warwick, and his PhD in Intelligent Education Systems from University of Salford. He subsequently worked as a research associate in Heriot-Watt University Edinburgh and as a senior lecturer at London Metropolitan University. He has specialist teaching in Business Process Modelling, Web Programming, Software Engineering, Classical Logic, Human Computer Studies. He has Book and published over 20 papers and reports in such journals as Information Systems Evaluation and Integration (ISEing). He supervised a considerable number of PhD theses and is a consultant on business and supply chain and engineering industry in England and United Kingdom.

# International Academic Multidiscipline Research Conference in Vienna 2018

#### Contents

SEEKING RELEVANCE: SHOULD A DIAGRAM BE NOTICED WHEN SOLVING A MATHEMATICS PROBLEM?

Dr. Brian D. Beitzel: page 1-9

THE BELIEF OF HOLY MAN AND ITS INFLUENCE IN THAT SOCIETY: PAST AND THE PRESENT Dr. Siriporn Dabphet: page 10-18

THE EFFECT OF MICE STAKEHOLDERS' PERCEPTION ON DECISION MAKING: Aqaba City as a Potential MICE Destination

Omar Abedalla Alananzeh: page 19-19

NETWORK INTERACTION IN THE HOSPITALITY INDUSTRY AND ITS IMPACT ON THE FINANCIAL CONDITION OF THE HOTEL COMPANY

Natalia Baranova, Liudmila Bogatyreva and Marina Efremova: page 20-27

ENHANCING LANGUAGE COMPETENCY OF HUMAN RESOURCES AS A BUSINESS COMPETITIVE ADVANTAGE VIA ENGLISH FOR BUSINESS PURPOSES Duangkamol Thitivesa and Achara Wongsothorn: page 28-33

STRENGTHENING OF LEG MUSCLES WITH SELF STIMULATES MASSAGE IN THAI TRADITIONAL MEDICINE IN SCHOOL AGE CHILD Natsinee Sansuk: page 34-38

EFFECTIVENESS OF SELF-HELP GROUP PROGRAM FOR IMPROVING HEALTH LITERACY AMONG TYPE 2 DIABETIC PATIENTS RECEIVING SERVICES AT SUB-DISTRICT HEALTH PROMOTION HOSPITALS IN BANGKONTHEE DISTRICT, SAMUT SONGKRAM PROVINCE, THAILAND Kantapong Prabsangob: page 39-45

PROBLEMS AND METHODS OF DEVELOPING THE ENTERPRISE RESOURCE PLANNING SYSTEM OF SUAN SUNANDHA RAJABHAT UNIVERSITY Piyarat Sawettadul and Teerawit tinprapa: page 46-51

THE STUDY OF MANAGING THE FACTORS OF STUDENT TRANSPORTATION TO ATTEND THEIR CLASSES ON SCHEDULE

Tanyaluk Suphanate and Chattrarat Hotrawaisaya: page 52-56

THE STANDARD OF MONITORING THE PERFORMANCE OF SUAN SUNANDHA INTERNATIONAL SCHOOL OF ART

Nattacha Leepanyaporn and Komson Sommanawat: page 57-61

THE NEED FOR FDI INVESTMENT OF LATEX RUBBER IN THAILAND Dr. PichetTreewai, Dr. Hathaikan Chootrakool: page 62-74

MARKER-LESS BASED DETECTION OF REPETITIVE AWKWARD POSTURES FOR CONSTRUCTION WORKERS

Ren-Jye Dzeng, Yi-Pin Chiang, Keisuke Watanabe and Hsien Hui Hsueh: page 75-83

FLOOR PLAN-ANALYSIS, LIGHTING AND PHYSICAL ENVIRONMENT OF CLASSROOM DESIGN PREECHAYA KRUKASET: page 84-90

QUEER IMAGES IN THAI CONTEMPORARY DANCE A CASE STUDY OF 18 MONKEYS DANCE THEATRE

Dr. Sun Tawalwongsri: page 91-97

THE ENHANCEMENT OF THE FACILITIES FOR THE DISABLED OR HANDICAPPED AND THE ELDERLY, STATE ENTERPRISE BUILDINGS

Jitravadee Roongin Kunkar and Auntita Pankosol: page 98-103

THE PHYSICAL APPLICATION OF CERAMICS GLAZE FROM AGRICULTURE WASTE; ORANGE PEEL ASH

Suraphan Rattanavadi: page 104-108

MEDICAL AND PUBLIC HEALTH SECRETARY IN THAILAND'S PRIVATE HOSPITALS Pongsak Jaroenngarmsamer: page 109-113

INTERDISCIPLINARY COLLABORATION BETWEEN FACULTY MEMBERS AND INSTRUCTIONAL DESIGNERS

Fatimah Albrahim: page 114-114

BEYOND THE DISCIPLINE: DIALOGUES ON INTERDISCIPLINARY LEARNING AND TEACHING IN THE HUMANITIES

Nuria Alonso García, Professor: page 115-115

THE STABILITY STUDY OF CLINACANTHUS NUTANS OR PRAYAYOR CREAM DECLARED IN NATIONAL LIST OF ESSENTIAL MEDICINES B.E.2560
Nophadon Luangpirom: page 116-121

COMMUNICATION DESIGN PROJECT FOR PROMOTING THE IDENTITY OF KLONG YOUG, NAKHON PATHOM

Supatra Lookraks, Preechaya Krukaset, Suraphan Rattanavadi, Jitravadee Runginkankar, Khunchai Sukkon and Jitima Suethong: page 122-134

METRICAL FEATURE EXTRACTION OF ENGLISH TEXTBOOKS IN FINLAND Hiromi Ban and Takashi Oyabu: page 135-143

PRODUCT DEVELOPMENT OF BREAD WITH SANGYOD RICE FLOUR SUBSTITUTED FOR WHEAT FLOUR

Jiraporn Weenuttranon: page 144-151

DEVELOPMENT OF CAVENDISH BANANA CAKE FROM JUSMINE RICE FLOUR REPLACING WHEAT FLOUR

Nunyong Fuengkajornfung: page 152-155

SECONDARY AND FRINGE TOWNS ALONG THE NORTHERN THAILAND ROUTE FOR SELF-DRIVE TOURISM: AN INVESTIGATION OF TOURISTS' PERCEIVED SOUVENIR QUALITIES AND ATTRIBUTES PREDICTING DECISION MAKING TO PURCHASE Siripen Yiamjanya: page 156-161

ENGLISH INFLECTION IN PLURAL NOUNS WITH -O, -OO, -OE, -OU -OW, AND -EAU ENDING Suwaree Yordchim: page 167-172

THE ADAPTATION OF THAI TRADITIONAL MEDICINE AND HERBS ENTREPRENEUR TO BECOME CULTURAL HEALTH SUPPLEMENTARY PRODUCTS: A CASE STUDY OF U-THAI PRASIT CORPORATION, MUANG DISTRICT, PRACHINBURI PROVINCE SaowapaPhaithayawat and TikhampornPunluekdej and Suwaree Yodchim: page 173-179

INTENTION TO VISIT GREEN HOTEL: A CASE STUDY OF THAI TRAVELERS Kanyapilai Kunchornsirimongkon: page 180-183

HOW DEVELOP TRADITIONAL TEXTILE TO MAKE THEN MODERN TO THE CONTEMPORARY WORLD THROUGH THE USE OF DIGITAL TECHNOLOGY USAINI ALIYU: page 184-184

# 2018 ICBTS CONFERENCE VIENA PROGRAM

The 2018 IC	CBTS International Multidiscipline Research Conference		
1 March 18 9.00-09.30 (TH)	REGISTRATION & WELCOME Welcome meeting at The Roomz, Vienna, Australia		
	Academic Advisory & Session Chair Professor Dr. Kai Heuer, Germany Professor Dr. Hiromi Ban, Japan		
1 March18(M)	Session A		
1 March 18 (TH)	Session A1		
W 1.11	Paper 1(2) STRENGTHENING OF LEG MUSCLES WITH SELF STIMULATES		
09.00-10.30 (TH)	MASSAGE IN THAI TRADITIONAL MEDICINE IN SCHOOL AGE CHILD  NATSINEE SANSUK		
	Paper 2(23) THE UNIVERSITY STAFF SURVEY: NUTRITIONAL STATUS AND FOOD CONSUMPTION BEHAVIOR		
	RANIT NGOWSIRI AND KUNYA NAPAPONGSA  Paper 3(412) COGNITIVE, PHYSICAL, SOCIAL AND EMOTIONAL		
	DEVELOPMENT OF A CHILD		
	DR REHAB BEGUN		
	Paper 4(31) THE ROLE OF SUPERVISOR ON PERCEPTION OF GENERATION		
1	Y NURSING STUDENTS ON THEIR NURSING SKILLS AFTER THEIR FIRST CLINICAL PRACTICE KANCHANAKIATKANON AND WARUNSIRI PRANEETHAAM AND ORATHA RUNGVACHIRA AND NAPISSARADHIRANTHARA AND PETCHARAT		
<b>V</b>	TACHATHAWEWON		
,	Paper 5(35) SELF AWARENESS OF BLOOD SUGAR CONTROLL FOR THAI		
	COMMUNITY DM. AT PREMRUTHAI PRAVATE COMMUNITY BANGKOK		
	TIPAPAN SUNGKAPONG AND BOONSRI KITTICHOTTIPANICH AND CHANTANA CHANGCHENVATE		
	Paper 6(32) SELF-ASSESSMENT OF NURSING PRACTICES AND		
	MIDWIFERY OF GRADUATES IN COLLEGE OF NURSING AND HEALTH, SUAN SUNANDHA RAJABHAT UNIVERSITY KANYA NAPAPONGSA AND KANIT NGOWSIRI		
10.31 - 10.45	Morning Break		
10.46 - 12.00	Session A 2		
	Paper 1(18) FACTORS PERSUADING IMPRESSION OF PREGNANT WOMEN		
	ATTENDING AT HIGH RISK PREGNANCY CLINIC BOONSRI KITTICHOTTIPANICH AND SUWANMANEE WUTTI AND PRAPAIWAN DANPRADIT AND CHANTANA CHANGCHENVATE		
	Paper 2(20) A STUDY ON HAND HYGIENE COMPLIANCE FOR EDUCATION		
	AMONG VISITORS IN MEDICAL UNIT ORATHAI RUNGVACHIRA AND APINYA KOONTALAY AND WARUNSIRI PRANEETHAM AND KANCHANA KIATKANON AND MANEERAT PAKTOOB		

	Paper 3 (33) ISSUES AFFECTING ADOPTION OF PERSONALIZED
	MEDICINE
	Dr. Shehla Shehla
	Paper 4(22) EFFECTS OF EMPOWERMENT PROGRAM ON DEMENTIA
	PREVENTIVE BEHAVIOR IN ELDERLY
	CHOTISIRI, L AND TECHAPONGVORACHAI, K  Paper 5(30) THE MODEL TO STRENGTHEN THE MORAL AND THE BASIC
1 1	FOR THE FORTH YEAR NURSING STUDENTS IN COLLEGE OF NURSING
	AND HEALTH, SUAN SUNANDA RAJABHAT UNIVERSITY
	CHANTANA CHANGCHENVATE
12.01-13.00	Lunch Break
13.01-14.15	Session A 3
	Paper 1 (15) MARKER-LESS BASED DETECTION OF REPETITIVE AWKARD
	POSTURES FOR CONSTRUCTION WORKERS
	Ren-Jye Dzeng and Yi-Pin Chiang and H.H. Hsueh
	Paper 2 (9) DOES RAIN WASH OUT PARTICULATE MATTER? AN
7000	APPLICATION TO THE EFFECT OF AIR POLLUTION ON INFANT
1 1	MORTALITY Mehreen Mookerjee
	Paper 3 (42) ELECTROHYDRODYNAMIC STRUCTURES FOR SURFACE
1	ENHANCED RAMAN SCATTERING BASE POINT-OF-CARE DIAGNOSTICS
W.	Professor Dr Pola Goldbrerg Oppenheimer and Dr JJ Rickard
	Paper 4 (37) THE DEVELOPMENT OF THAI ENGINEERS POTENTIALS FOR
	AEC
	NATNAPORN AEKNARAJINDAWAT
	Paper 5 (45) METRICAL FEATURE EXTRACTION OF ENGLISH TEXTBOOKS
- A	IN FINLAND
	Professor Dr. Hiromi Ban and Takashi Oyabu
14.16-15.30	Session A4
	Paper 1(9) DEVELOPMENT OF CAVENDISH BANANA CAKE FROM JUSMINE RICE FLOUR REPLACING WHEAT FLOUR'
*	NUNYONG FUENGKAJORNFUNG
	Paper 2(24) EXPLANATORY MODEL BASED ON PERSPECTIVES OF
ľ	DIABETIC PATIENTS IN NORTHERN THAILAND
	SUKANYA BOONVARASATIT, WANICH SUKSATHAN, KANTAPONG
	PRABSANGOB
	Paper 3(26) PERCEPTION OF HEALTH STATUS AND SELF-EFFICACY OF
	AGING: SAMUT SONGKHRAM PROVINCE  WIPAKON SONSNAM AND MUNTHANAWADEE MAYTAPATTANA
	Paper 4(7) THE NEED FOR FDI INVESTMENT OF LATEX RUBBER IN
	THAILAND
	PICHET TREEWAI AND HATHAIKAN CHOOTRAKOOL
	Paper 5(8) PRODUCT DEVELOPMENT OF BREAD WITH SANGYOD RICE
	FLOUR SUBSTITUTED FOR WHEAT FLOUR
	JIRAPORN WEENUTTRANON
15.31-15.45	Afternoon Break
15.46 - 17.45	Session A
	Paper 1 (27) THE ANALYSIS OF KNOWLEDGE AND ABILITY OF
	UNDERSTANDING KANJI IN THAI STUDENTS AT THE BEGINNING LEVEL:
	THE CASE STUDY OF THE KANJI PROFICIENCY TEST AMONG

UNDERGRADUATE STUDENTS AT SUAN SUNANDHA RAJABHAT UNIVERSITY RUDEEMAD RODSUK Paper 2 (33) E-BOOK USAGE BEHAVIOR OF UNDERGRADUATE STUDENTS RATANAVADEE TAKERNGSUKVATANA Paper 3 (2) INTERPRETING THE ONE-CHINA PRINCIPLE CROSS-STRAIT RELATIONS AND THE DEVELOPMENT OF CONFIDENCE-BUILDING MEASURES Chiashing Wu Paper 4 (4) DESIGN THINKING: AN APPROACH THAT SHAPED BANDUNG INTO CREAIVE CITY Zahra Syifa and Abubakar Ahmad Paper 5(40) THE DEVELOPMENT OF TOURISM LOGISTICS AND SUPPLY CHAIN MANAGEMENT OF LAMPAYA FLOATING MARKET, BANGLEN, NAKHON PATHOM, THAILAND WATANYU CHOOPAK Paper 6(3) EFFECTIVENESS OF SELF-HELP GROUP PROGRAM FOR IMPROVING HEALTH LITERACY AMONG TYPE 2 DIABETIC PATIENTS RECEIVING SERVICES AT SUB-DISTRICT HEALTH PROMOTION HOSPITALS IN BANGKONTHEE DISTRICT, SAMUT SONGKRAM PROVINCE, THAILAND KANTAPONG PRABSANGOB Paper 7(21) THE ENHANCEMENT OF THE FACILITIES FOR THE DISABLED OR HANDICAPPED AND THE ELDERLY, STATE ENTERPRISE BUILDINGS Jitravadee Roongin Kunkar and Auntita Pankosol Paper 7(23) THE PHYSICAL APPLICATION OF CERAMICS GLAZE FROM AGRICULTURE WAST: ORANGE PEEL ASH Suraphan Rattanavadi Session B 1 March 18(TH) 1 March 18(TH) Session B1 Paper 1(1) ENHANCING LANGUAGE COMPETENCY OF HUMAN 09.00-10.30 (TH) RESOURCES AS A BUSINESS COMPETITIVE ADVANTAGE VIA ENGLISH FOR BUSINESS PURPOSES DUANGKAMOL THITIVESA Paper 2 (44) RESEARCH AND DEVELOPMENT OF READING LITERACY FOLLOW THE PISA TEST USING BY READING APPRENTICESHIP APPROACH TASANEE SATTHAPONG Paper 3 (28) INTERDISCIPLINARY COLLABORATION BETWEEN FACULTY MEMBERS AND INSTRUCTIONAL DESIGNERS Fatimah Albrahim Paper 4 (43) STUDY OF CONDITIONS AND PROBLEMS OF ADMINISTRATIVE COMPETENCE OF SCHOOL PRINCIPALS ACCORDING TO PROFESSIONAL STANDARDS TUANJAI DONPRASIT Paper 5 (12) THE ADAPTATION OF THAI TRADITIONAL MEDICINE AND HERBS ENTREPRENEUR TO BECOME CULTURAL HEALTH SUPPLEMENTARY PRODUCTS: A CASE STUDY OF U-THAI PRASIT CORPORATION, MUANG DISTRICT, PRACHIN BURI PROVINCE SAOWAPA PHAITHAYAWAT AND TIKHAMPORN PUNLUEKDEJ AND SUWAREE YODCHIM

2

×	Paper 6 (6) HOW DEVELOP TRADITIONAL TEXILE TO MAKE THEM MODERN TO THE CONTEMPORARY WORLD THROUGH THE USE OF DIGITAL TECHNOLOGY USAINI ALIYU			
V ,				
10.31 - 10.45	Morning Break			
10.46 - 12.00	Session B 2			
E-0.1 1-10	Paper 1 (11) ENGLISH INFLECTION IN PLURAL NOUNS WITH -O, -OO, -OE,			
	OU-OW, AND -EAU ENDING			
	SUWAREE YORDCHIM			
	Paper 6 (42) THE EFFECTS OF PROJECT-BASED LEARNING ON STUDENTS			
*,***	ENGLISH LANGUAGE ABILITY			
	ABIGAIL MELAD ESSIEN  Paper 3 (16) PROFESSIONAL LEARNING COMMUNITY OF TEACHERS: A			
j.	HYPOTHESIS MODEL DEVELOPMENT			
	SUCHEERA MAHIMUANG			
	Paper 4 (28) LESS IS MORE: CASE OF TEACHING JAPANESE CULTURE			
	THROUGH PERFORMANCE-BASED LEARNING			
	PREMVADEE NA NAKORNPANOM			
100	Paper 5 (44) GRASSROOTS HIGHER EDUCATION RESEARCH AND SUSTAINABLE DOCUMENTATION OF MINORITY LANGUAGES FOR			
	REGIONAL ENTREPRENEURIALISM			
- W	Professor Francien Herlen Tomasowa			
12.01-13.00	Lunch Break			
13.01-14.00	Session B 3			
	Paper 1 (3) SEEKING RELEVANCE SHOULD A DIAGRAM BE NOTICED			
*	WHEN SOLVING A MATHEMATICS PROBLEM?			
	Professor Dr. Brian D. Beitzel			
	Paper 2 (32) BEYOND THE DISCIPLINE: DIALOGUES ON			
	INTERDISCIPLINARY LEARNING AND TEACHING IN THE HUMANITIES Professor Nuria Alonso García Prof.			
	Paper 3 (41) CLASSROOM ACTION RESEARCH FOR TEACHING			
	MATHEMATICS IN SECONDARY SCHOOLS			
	Paper 4 (17) FLOOR PLAN-ANALYSIS, LIGHTING AND PHYSICAL			
	ENVIRONMENT OF CLASSROOM DESIGN CORRESPONDING IN THE 21 <sup>ST</sup>			
	CENTUR EDUCATION			
	Dr. Preechaya Krukaset			

14,01-15,15	Session B 4
	Paper 1 (13) NETWORK INTERACTION IN THE HOSPITALITY INDUSTRY
,	AND ITS IMPACT ON THE FINANCIAL CONDITION OF THE HOTEL COMPANY
	Natalia Baranova and Liudmila Bogatyreva and Marina Efremova
	Paper 2 (14) SECONDARY TOURISM DESTINATION WITH HERITAGE
	POTENTIALS, KHIRIWONG COMMUNITY, NAKHON SI THAMMARAT,
	THAILAND
	NUNTANA LADPLEE
	Paper 3 (13) INTENTION TO VISIT GREEN HOTEL, A CASE STUDY OF THAI
	TRAVELERS
	KANYAPILAI KUNCHORNSIRIMONGKON
	Paper 4 (10) SECONDARY AND FRINGE TOWNS ALONG THE NORTHERN
	THAILAND ROUTE FOR SELF-DRIVE TOURISM: AN INVESTIGATION OF
	TOURISTS: PERCEIVED SOUVENIR QUALITIES AND ATTRIBUTES
	PREDICTING DECISION MAKING TO PURCHASE
7000	SIRIPEN YIAMJANYA  Paper 5 (17) THE STUDY OF CLIENT REQUIREMENTS IN CHOOSING
31 g	ACCOMMODATION IN SURIN PROVINCE
V 4	KANAMON SUWANTADA
15.16 - 15.30	Afternoon Break
15.31-17.45	Session B 5
	Paper 1(10) THE BELIEF OF HOLY MAN AND ITS INFLUENCE IN THAI
1	SOCIETY: PAST AND THE PRESENT
	Dr.Siriporn Dabphet
	Paper 2 (4) PROBLEMS AND METHODS OF DEVELOPING THE ENTERPRIS
	RESOURCE PLANNING SYSTEM OF SUAN SUNANDHA RAJABHAT UNIVERSITY
	PIYARAT SAWETTADUL AND TEERAWIT TINPRAPA
	Paper 3 (5) THE STUDY OF MANAGING THE FACTORS OF STUDENT
*	TRANSPORTATION TO ATTEND THEIR CLASSES ON SCHEDULE TANYALUK SUPHANATE AND CHATTRARAT HOTRAWAISAYA
	Paper 4 (11) THE EFFECT OF MICE STAKEHOLDERS: PERCEPTION
	ON DECISION MAKING Agaba City as a Potential MICE Destination
	Dr. Omar Alananzeh
	Paper 5 (6) THE STANDARD OF MONITORING THE PERFORMANCE OF
	SUAN SUNANDHA INTERNATIONAL SCHOOL OF ART NATTACHA LEEPANYAPORN
	Paper 6 (45) SAFETY BEHAVIORS OF EMPLOYEES IN MANUFACTURING
	OPERATIONS
	NATAWADEE PUTTAWONG AND ASST. PROF. DR. WITTHAYA MEKHUM AND
	WUTTHIKORN MALIKONG
	Paper 7 (36) THE QUALITY ENHANCEMENT OF COMPETITIVE
	POTENTIALS FOR THAI ENTREPRENEURS KANITTHA SESKHUMBONG AND SOMDECH RUNGSRISAWAT
	Paper 8 (19) COMMUNICATION DESIGN PROJECT FOR PROMOTING THE
,	IDENTITY OF KLONG YONG DISTRICT, NAKHON PATHOM
	Supatra Lookraks and Preechaya Krukaset and Suraphan Rattanavadi and Jitravade
	Roongin Kunkar and Khwanchai Sukkon and Jitima Seutong

	Paper 9 (20) QUEER IMAGES IN THAI CONTEMPORARY DANCE: A CASE STUDY OF 18 MONKEYS DANCE THEATRE			
	Sun Tawalwongsri			
2 March 18 (F)	Session C			
2 March 18 (F)	Session C1			
09.30 - 10.30	Paper 1(7) THE DETERMINATION OF BODY IMAGE AND LIFE			
	SATISFACTION OF DISABLED WOMEN			
	EDA PURUTÇUOĞLU and CEMİLE AKSEL  Paper 2 (35) MEDICAL AND PUBLIC HEALTH SECRETARY IN THAILAND'S			
	PRIVATE HOSPITALS			
	Pongsak JAROENNGARMSAMER			
	Paper 3 (36) THE RESULT OF WATER FLOW AND SETTLE ON FERROUS			
	ION REMOVAL EFFICIENCY IN AQUEOUS SOLUTION			
	Mr. Thanya Promsorn			
700	Paper 4 (12) Evaluation of the levels of heavy metals, Dissolved Organic Phosphorus			
4 k	(DOP) and Nitrogen (DON) in three Wetlands of Northern Nigerian  Shaibu Yusuf and Audu, A.A. And Waziri, M. K. Jigawa			
10.31 - 10.45	Morning Break			
10.46 - 12.00	Session C2			
10.40 - 12.00	Paper 1(38) THE ENHANCED ACTIVITIES SKILL AFFECT READING			
	ENGLISH LANGUAGE OF EARLY CHILDHOOD			
The state of the s	Phannee Rojanabenjakun			
	Paper 2 (14) Legal education to support social evaluation in Pakistan			
1	Riaz Pervez			
	Paper 3 (25) Teaching English to students with autism: Montessori-			
	Oriented versus Audio-Lingual Method			
	Mahsa Rezvani			
*	Paper 4 (26) A Practical Guide to Collaborative Writing Assignments as			
4.	a Pedagogical Technique in Higher Education Implemented in an			
	Economics Course  Bahia Braktia and Belkacem Braktia			
	Paper 5 (31) Initiatives towards peace process in the jammu and kashmir			
	state in the post kargil era			
	Pinki maurya			
	Paper 6 (15) CUSTOMER AIRLINES EXPECTATION AND SATISFACTION			
	ON CARGO GROUND SERVICE: A CASE STUDY OF CARGO GROUND			
	SERVICE IN THAILAND KANGWARN PHOTHONG AND KORAWIN KUNGWOLA			
2 March 18(F)	Session E			

2 March 18(F)	Session E1
09.30 - 10.30	Paper 1(46) The stability Study of Clinacanthus nutans or Prayayor
	cream declared in National List of essential Medicines B.E.2560
	Dr. Nophadon Luangpirom
	Paper 2 (47). Accepting Factors on Uterine Firming Massage in Thai
	Traditional Medicine Services
	Wannee Promdao
	Paper 3 (40) ELECTRONIC SPREADSHEET PACKAGE IN OFFICE MANAGEMENT: A KEY DRIVE FOR SECRETARIES AND ADMINISTRATION
	DUTIES
	Chibuzo Emmanuel Amah N.
	Paper 4 (41) Integrating receptive and productive language skills in ESF
	courses on the Moodle platform
	Orit Zeevy-Solovey
10.31 – 10.45	Morning Break
10.46 - 12.00	Session E2
* 1	Paper 1 (43) ROYAL THAI CUISINE OF SUAN SUNANDHA PALACE FOR HEALTH ON THE THEORY OF THAI TRADITIONAL MEDICINE
	Dr. Supalak Fakkham
	Paper 2(33) The Impact of Quality Information on the Environmental
	Accounting Disclosure: A Case study for the Arabian Gulf Oil Compan
	in Libya.
	Associate Prof.Dr. Eltayeb M. Elgobbi and Assistant Eltaib E. E. El-
120	Ghannai
140	Paper 3 (34) India's Act East Policy: Strategy for Economic integration
	with Southeast Asia
	Binit lal
*	Paper 4 (37) India's Role in the Geopolitics of Indo-Pacific
3	Opportunities and Challenges Vivek Kumar Saurabh
	Paper 5 (39) The effect of Project – Based Learning on Undergraduate
	Students English for Specific Purposes (ESP) Courses
	Aziza Kavlu
12.01	Conference Close
1-2 March 18	Participation and Discussion
	1 Dr Mustafa Arslan Gaorgia
	<ol> <li>Dr. Mustafa Arslan., Georgia,</li> <li>Dr. Dr Olufemi Aramide, Nigeria</li> </ol>
	Dr. Dr Olufemi Aramide, Nigeria     Dr. Asif Iqbal, China
	4. Professor Wang Zhuquan, China
	5. Dr. Sumit Kumar dey, India
3 March 2019	Free day for Participants
3 March 2018	Free day for Participants

# SECONDARY AND FRINGE TOWNS ALONG THE NORTHERN THAILAND ROUTE FOR SELF-DRIVE TOURISM: AN INVESTIGATION OF TOURISTS' PERCEIVED SOUVENIR QUALITIES AND ATTRIBUTES PREDICTING DECISION MAKING TO PURCHASE

#### Siripen Yiamjanya

\*International College, Suan Sunandha Rajabhat University, Bangkok, Thailand, E-Mail: siripen.yi@ssru.ac.th

#### ABSTRACT

The paper investigated perceived qualities, expected qualifications of souvenirs and related pull attributes that predicted decision making to purchase, and satisfaction towards purchasing experience, utilizing the Thai self- drive tourism case study. The study area encompassed the secondary and fringe towns along the Northern Thailand route. Employing the quantitative approach with self- administrated questionnaire, a total of 222 self- drive tourists was collected. The analysis was carried out by use of mean, standard deviation and Multiple Regression statistics. The findings reported high level of perceived qualities of souvenirs, with the product value attribute obtaining the highest rank among the six qualification categories, with some improvements being addressed. Product values, product forms and recollection quality were discovered to perform the significant predictor of decision making to purchase, whereas product utilities, physical accessibility of shops and atmosphere were not significantly recognized in the context of self- drive tourism along Thailand's northern route. The findings conveyed some recommendations; that town hubs for souvenirs should be established as the town storefronts and information and interpretation stop point for visitor orientation for the towns and the route identities. Community souvenir zones should be introduced to the fringe areas for benefit of tourism- related product diversification. Self- drive tourism along the northern route of Thailand characterized by high automobile dependency notably catalyses a linear travel pattern, resulting in linear behaviour of tourists in making en route stops for purchasing souvenirs. More nodal points should be well planned and developed in these fringe towns that will distribute tourists from the main highway to the roads inside.

Keywords: Northern Thailand Route, Secondary and Fringe Towns, Self- Drive Tourism, Souvenirs

### INTRODUCTION

Drive tourism is defined by Prideaux and Carson [1] as tourism that centres on travelling from an origin point to a destination by car that is either privately owned or rented, and engaging in tourism related activities during the journey. Drive tourism can increase travellers' opportunities to drive out of the main highway to access further more remote areas. It also has a close relationship with development of rural areas reachable by car (2). This visualises the idea of income distribution into rural businesses. Thai's domestic self- drive tourism has been dominated by the routes in the northern Thailand. The main routes include Highway No. 1 or Phahon Yothin Road starting from Bangkok to Mae Sai District in Chiang Rai Province that connects with Tha Khi Lek, Shan State of Myanmar, and Highway No. 11 starting from Ayutthaya Province to Chiang Mai Province. The situational analysis report of Thailand's domestic tourism during 2014- 2016 provided by Ministry of Tourism and Sports revealed steady trend of increased number of travel within the country with less seasonal manner [3]. In 2016, the tourism statistics of Northern Thailand showed a total of 1,839,502 Thai self- drive tourists who bought package tour, and of 10,134,329 who arranged the trip on their own [4]. The statistics of expenditure of Thai tourists during 2014-2016 showed an increase of spending on souvenirs and other general products during their travel, from 1.89 percent in 2014 to 4.29 percent in 2015, and 3.48 percent in 2016. Despite a slight decline in 2016, the percentage share of the spending in souvenir sector remained significant, which was approximately 22 percent [3]. Along the northern route of Thailand locate many provinces with old and newly expanded communities due to land transportation development; many are notable as the stop point for resting and buying souvenirs, while the others have many attractions inside, both the lesser- known and the emerging ones. This paper therefore aimed to investigate perceived qualities, expected qualifications of souvenirs and related pull attributes that predicted decision making to purchase, and satisfaction towards purchasing experience, by utilizing the Thai self- driving tourist market, The study

also addressed issues concerning development of tourism and tourist souvenirs of the study area, considered in this study as the secondary and fringe towns.

Fringe towns in the dimension of urban development may be considered as secondary towns in tourism development. These towns are defined as areas where rural and urban neighborhoods are connected. Development of transportation connectivity such as highways or intercity trains creates fringe towns, to which people move for living as a result of town expansion and more population factors. Today, it is more difficult to identify which area are rural or urban as more rural places have become more urbanized with a merit of transport development making most of places are more accessible. In many cases, there is a phenomenon called 'urban sprawls'. Fringe towns are mostly chosen as the location for factories, transport hubs and terminals, or farms due to demand of large, open space. Today, another type of land use of empty space in the area of fringe towns is location of outlet or shopping towns/ villages. In Thailand context, especially along the highway from the central part to the northern part, many spaces between rural and urban areas remain attractive in terms of natural and social character. Under being threatened by urbanization, some old communities have been made marginalized; some have also attempted to maintain or revitalize their traditional social and cultural fabrics. Convenient travel today gives attractiveness and potential to these towns for tourism. Nevertheless, tourism development of these secondary towns needs to be aligned with primary towns that are main tourist attractions.

If a tourist destination is the main place to arrive and refers to the primary place of visitation, secondary place may not be explained by the meaning of 'destination' as the main place to arrive, but rather it is an added- on, alternative place for en route stop on the way to the primary destination ) on tourist itinerary(. Secondary 'place attaches with 'a reason to travel within a bigger destination' [5]. It connects with the secondary market that provides secondary profits in terms of tourism business. It is not a 'must-see' or 'must-visited' destination. In the consumer decision making perspective, secondary destination may influence tourists to make an immediate or an in-situ decision to take a visit during the trip to the primary destination or after completing the tour at the primary destination. From the marketing point of view, secondary destinations may be confined with a shortage or a lack of interpretation and information publicity resulting in being less chosen as a tourist destination. Several of them may have a particular image, or they may not have been established with a clear and positive image [6]. This may demotivate tourists or make them feel reluctant to visit them because they may not want to lose their time to be afforded for main destination visits; or they feel secondary places are not worth to make a visit unless the significance of those places is presented or told. Secondary destinations, thereafter, may not be able to stand alone to call for the tourism market's attention unless they receive strong promotion and interesting interpretation.

Souvenir shopping is an important activity in tourism and travel industry. Apart from tourists' expenditure in accommodation, shopping during their travel and holiday presents critical spending especially at tourist destinations. In self- drive tourism in Thailand, stop for souvenir shopping is considered the stop for resting as well, and places for stops include the secondary towns such as Nakorn Sawan, Kamphaengphet, Tak and Lampang. These provinces are normally represented as typical secondary towns both for short stops for visit and rest, as well as stop points for souvenir purchase. Popular stop points among Thai self- drive tourists mainly are standard gas stations with supermarkets and clean toilets, toll way rest points and big souvenir shops with restaurants available [7]. Souvenir shopping can also be a pleasure during trip, especially among self- drive tourists due to freedom induced by time and vehicle factors. Points for shopping souvenirs along the Northern Thailand route are normally seen located along both sides of the highway. Most are both in the forms of permanent shop and temporary stalls at temporary markets, rather than in the form of community market. Souvenirs in Thai sense include not only handicraft products but also food and snack products. These products are sold at souvenir shops in the abovementioned secondary towns.

#### METHODOLOGY

The selected study area was linear as it was the road to the North of Thailand on Highway No. 1 that passed the secondary cities including Nakorn Sawan, Kamphaengphet, Tak and Lampang. These provinces are the en route stop points of most Thai self- drive tourists to take rest, have meals and buy souvenirs. Data were collected via self- administered questionnaire with 222 Thai self- drive tourists at resting points for example gas stations, souvenir shops and open markets. The questionnaire was designed by use of five- point Likert- type scale measuring level of importance. Before the actual fieldwork, a pilot study was carried out to test the reliability of the research tool. Cronbach's alpha was used for the analysis of the pilot study, and the

calculation found that a reliability coefficient score was 0.799, which was acceptable [8]. After the actual fieldwork, the data was analysed by use of mean, standard deviation and Multiple Regression statistics.

#### RESULTS

The study found that the majority of tourists or 54.1 percent travelled from Bangkok heading to Chiang Mai as the destination or 22.5 percent; 78.8 percent of them used bypasses to avoid high traffic in the centre of towns. The average number of trip party was between 4-5 persons or 42.3 percent. The provinces where most of the tourists stopped to buy souvenirs ranked from the most to the least frequent stop included Nakorn Sawan (34.7 percent), Lampang (20.3 percent), Phitsanulok (14.9 percent) and Kamphaengphet (14 percent). The average time spent at souvenir shops was more than half an hour but not longer than 1 hour. The most frequently bought souvenir type was foods and desserts (83.7 percent), and the least included decoration and art works (33.3 percent). The investigation of self- drive tourists' perceived souvenir qualities, shown in Table 1, reported that the product values was ranked as the highest significant attribute, followed by the quality in helping tourists have a recollection of the places, atmosphere of souvenir shops, product forms, physical accessibility and product utilities.

Table 1

Ranking of Self- Drive Tourists' Perceived Souvenir Qualities

No.	Perceived Souvenir Quality	X
1	/Product values	3.97
2	The quality in helping tourists have a recollection of the places	3.94
3	Atmosphere of souvenir shops	3.92
4	Product forms	3.90
5	Physical accessibility	3.74
6	Product utilities	3,68

The tourists' good experience in purchasing the souvenirs indicated their high level of satisfaction towards all souvenir attributes, as exhibited in Table 2, yet the least satisfactory one was the recollection quality. The highest level of satisfaction was product values (Mean = 4.19), followed by product utilities (Mean = 4.07), atmosphere of souvenir shops (Mean = 4.04), product forms (Mean = 4.02), physical accessibility (Mean = 4.00), and the quality in helping tourists have a recollection of the places (Mean = 3.99).

Table 2
Ranking of Self- Drive Tourists' Satisfaction towards Purchase Experience of Souvenir Attributes

No.	Perceived Souvenir Quality	x
1	Product values	4.19
2	Product utilities	4.07
3	Atmosphere of souvenir shops	4.04
4	Product forms	4.02
5	Physical accessibility	4.00
6	The quality in helping tourists have a recollection of the places	3.99

By the multiple regression analysis, all 6 attributes predicted the tourists' souvenir purchasing at 53.60 percent with an approximate prediction error variance of 0.43087. Product values, product utilities, atmosphere, product forms, physical accessibility, and recollection quality were discovered as the predictor, as the attributes affected the satisfaction on souvenir purchasing experience. However, not all showed a significant presence. Product values, product forms and the quality helping tourists recall tourist places significantly predicted the purchase, whereas product utilities, physical accessibility and atmosphere of souvenir shops showed less significance in the prediction. Table 3 exhibits level of importance for improvement and development of souvenirs, pointing out that some souvenir types need improvement and development. The most indicated attributes include picture or photo types, local handicrafts, souvenirs that help tourists recall their travel experiences at destinations and remember their engagement in local events and festivals (souvenirs that represent travel experience and local festivals).

Table 3

Level of Importance for Improvement and Development of Souvenirs

No.	Souvenir Characteristics	X	Level of Importance for Improvement and Development
1	Picture or photo types (i.e. postcards, photo book)	4.07	High
2	Recollection quality	3.95	High
3	Local handicrafts	3.92	High
4	Souvenirs with the quality to represent and materialise tourists' memory of their experiences of travel places, events and festivals	3.90	High
5	Souvenirs made from natural resources	3.82	High
6	General souvenirs with places' name printed on	3.81	High
7	Miniature replicas of landmarks	3.75	High

The findings provided an understanding of tourists' decision-making behaviour in purchasing souvenirs during their driving trip along the secondary and fringe towns. Product values as the most meaningful attribute in the perception of tourists towards souvenir qualities explain preferences of domestic leisure tourists, who pay more attention to the aesthetic side of product through forms, representation of local idea, uniqueness and local sense [9]. Souvenirs with the quality to represent and materialise tourists' memory of their experiences of travel places, events and festivals are essential, which can be designed through forms, words and pictures. Tourists use physical characters and atmosphere of souvenir shops, and product displays in making an impulse decision to stop to buy [10]. What can attract them to stop and travel to more inner areas to take a short trip as part of the whole trip, as well as to buy souvenirs include tourist signage, visitor information centre, market places and production manifestation.

## CONCLUSION AND FUTURE WORK

The findings of this study concurred with previous studies, as in Farahani et al. [11], Wilkins [12], Wick et al. [10] and Kim [9]. These studies emphasized an importance of design, originality and qualities of souvenirs in ways that created aesthetics, appreciation, remembrance and recollection of tourists towards tourist places, events and festivals, as well as an influence of shop location, product display and atmosphere on tourists' decision making to stop and buy souvenirs. The findings of this current study suggested further development for souvenir business along the northern route and of the secondary towns in terms of local brand identities that connect with destinations to enhance souvenir-destination reminiscence quality. Identity enhancement and image improvement of secondary and fringe towns through development of the souvenir sector may be considered an alternative solution for building more local sense and tourism and leisure image and impression in the case of towns located along the linear landscape. A provision of history details of places and products could entail high effect on tourists' positive attitude and perspective upon the aesthetic side of souvenir products, and decision to purchase [9]. Most products are recommended to have details that represent local production and that connect with the places of destination in various aspects for instance geographic space, built environment and landscapes, community and people.

Bringing food and desserts for relatives and friends as the gift after coming back from trips has characterised Thai hospitality and collectiveness; this has accordingly become the outstanding culture in souvenir purchase for domestic market. It is suggested that food and desserts as souvenir product be attached with details to convey historical, social, cultural and geographical significance. The development of this souvenir type can provide a further contribution to gastronomic tourism development that links to the principal historical or cultural heritage of the cities [13] as well as of the route. Moreover, the fact that many tourists use bypasses to avoid high traffic in the centre of towns may lead to an expansion of more businesses involving home construction and travel such as gas stations, restaurants and accommodation. More souvenir shops and stalls have also been established along these bypasses. This seems to reduce the frequency and the

likelihood of visits to be made by self- drive tourists to the older precincts of the towns mostly located in the inner areas. The situation may gradually lead to a fading of authentic locality, spiritually and socially, due to the fact that the business expansion has gradually developed in a more distant manner from the town itself. It is noteworthy to address that some old houses and community markets situated near the highway have also been revitalized for adaptive- reuse as souvenir shops and restaurants to attract tourists to stop by; some newly developed shops were also built as a replica of the original shop houses. Sustaining community products and old- style retailers is a significant way to support and promote community products from local wisdoms [14].

This paper also pointed out that the establishment of souvenir shops presented the linear character along the highway, which has been shaping self- drive tourists' souvenir purchase into a linear pattern, in particular addressing decisions under individual push factors in making a stop, and in situ decision making influenced by pull factors to buy souvenirs just along the highway. The situation may benefit the economics of souvenir sector especially for bigger investors, but may not represent sustainability and equality in economic, social and cultural aspects in the holistic approach. This assumption therefore contributes to some recommendations. Community souvenir shops or centres may be established along the highway. More nodal points should be developed to distribute tourists from highways to roads and streets in inner areas, which may lead to future development of nodal attractions. This may promote the secondary towns to be more frequently visited. Policy on new tourism clusters may also be developed based on local souvenir identities as well as route identities. Additionally, town hubs for souvenirs may be established as the town storefronts, and information and interpretation stop point for visitor orientation to the towns and the route.

#### ACKNOWLEDGEMENTS

I would like to express my sincere thanks to Suan Sunandha Rajabhat University for invaluable help throughout this research.

#### REFERENCES

- Prideaux, B. & Carson, D. (2003), —A Framework for Increasing Understanding of Self- Drive Tourism Marketsl, *Journal of Vacation Marketing*, Vol. 9, No. 4, Pp. 307-313.
- [2] Yi, S. (2008), —Lodging Demand for Drive Tourism in Rural Areasl, Purdue University, Indiana, United States of America.
- [3] Ministry of Tourism and Sports (2016), —Tourism Situational Analysis Report, 2016l, http://www.mots.go.th/ewt\_dl\_link.php?nid=8848.
- [4] Ministry of Tourism and Sports (2016), Domestic Tourism Statistics of Northern Thailand, 2016, http://www.mots.go.th/ewt dl link.php?nid=8816.
- [5] Beunders, N. (n.d.), —Protected Areas as Sustainable Tourism Destinations: Opportunities, Challenges and Pitfallsl, http://www.savariver.com/downloads/PAs%20and%20sustainable%20tourism.pdf.
- [6] Vladi, E. (2014), —Tourism Development Strategies, SWOT Analysis and Improvement of Albania's Imagel, European Journal of Sustainable Development, Vol. 3, No. 1, Pp. 167-178.
- [7] Yiamjanya, S. (2016), Digital Mobility and the Changing Façade of Tourism Landscape: A Case Study of Self- Drive Excursionists, Central Thailand Routesl, Proceedings of 81<sup>st</sup> The IIER International Conference, International Journal of Management and Applied Science, Vol. 2, Issue 11, Pp. 106-111.
- [8] Institute for Digital Research and Education (n.d.), —What does Cronbach's Alpha mean?l, https://stats.idre.ucla.edu/spss/faq/what-does-cronbachs-alpha-mean.
- [9] Kim, S. (1997), —International Tourists' Souvenir Purchasing Behaviorl, *Iowa State University*, Iowa, United States of America.
- [10] Wicks, B. et al. (2004), —Direct Marketing of Crafts and Souvenirs to Vladimir Visitorsl, Vladimir Tourism Development Project Report. University of Illinois, Illinois, United States of America.
- [11] Farahani, F.V. et al. (2014), —Effective Factors on Souvenir Purchase: The Case of Foreign Tourists' Viewpoint in Tehran Cityl, Enlightening Tourism. A Pathmaking Journal, Vol. 4, No. 2, Pp. 147-167.
- [12] Wilkins, H. (2009), Souvenirs: What and Why We Buyl, Journal of Travel Research, Vol. 50, No. 3, Pp. 239-247.
- [13] Horodyski, G.S. et al. (2014), —Gastronomic Souvenirs as Travel Souvenirs: A Case Study in Curitiba, Brazill, Via Tourism Reviewl, Vol. 6l, http://journals.openedition.org/viatourism/732.

[14] Wongleedee, K. (2015), —Marketing Mix and Purchasing Behavior for Community Products at Traditional Marketsl, Proceedings of 7th World Conference on Educational Sciencesl, Procedia-Social and Behavioral Sciences, No. 197, Pp. 2080-2085.