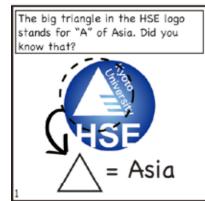
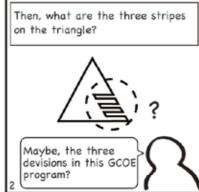
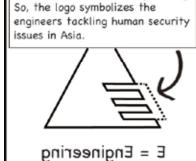
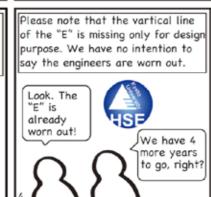
Humorous Stories about Engineers







Actually, it's "E" for engineering





Kyoto University Global COE Program

Global Center for Education and Research on **Human Security Engineering for Asian Megacities**

京都大学グローバルCOEプログラム

アジア・メガシティの人間安全保障工学拠点

Contact Information

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Graduate School of Engineering

大学院工学研究科

Urban and Environmental Engineering http://www.uee.kyoto-u.ac.jp/english/index.html 都市環境工学専攻

Civil and Earth Resources Engineering 社会基盤工学専攻

http://www.ce.t.kyoto-u.ac.jp/en/index html

Urban Management http://www.um.t.kyoto-u.ac.jp/en

都市社会工学専攻

Architecture and Architectural Engineering http://www.ar.t.kyoto-u.ac.jp/en

建築学専攻

Graduate School of Global Environmental Studies 地球環境学堂•学舎

http://www.ges.kyoto-u.ac.jp/english/index.html

Disaster Prevention Research Institute

http://www.dpri.kyoto-u.ac.jp/web e/index e.html

Human Security Engineering







The Staff of the GCOE HSE Center

For establishing the discipline of "Urban Human Security Engineering"

Kyoto University Global COE Program

Global Center for Education and Research on Human Security Engineering for Asian Megacities

CONTENTS

- Activity Report
- Message
- Overseas Bases
- Research
- Education
- 6 Join Our GCOE Program!
- Program members

Activity Report Assistance Report Activity Report

Opening Symposium of the Global COE Program "Global Center for Education and Research on Human Security Engineering for Asian Megacities" at Kyoto University

京都大学グローバルCOEプログラム「アジア・メガシティの人間安全保障工学拠点 | オープニングシンポジウム報告

Date: December 19th, 2008

Place: Funai Auditorium/Katsura Hall, Kyoto University at Katsura, Japan

Organized by the Global COE program "Global Center for Education and Research on Human Security Engineering for Asian Megacities"

Co-organized by Support Program for Improving Graduate School Education "Int'tech Fusion Graduate School Engineering Education Program"

The opening symposium of the Global COE program "Global Center for Education and Research on Human Security Engineering for Asian Megacities" was held at Funai Auditorium on December 19th, 2008



In the symposium, Nobutaka Fujii, executive vice president of Kyoto University, Koichiro Oshima, dean of the Graduate School of Engineering, Shintaro Kobayashi, dean of the Graduate School of Global Environmental Studies, and Masahiro Chigira, vice dean of the Disaster Prevention Research Institute expressed their expectations and ambitions regarding this program, and Yuzuru Matsuoka, the leader of this GCOE program, introduced the concept of human security engineering. In addition, the invited representatives of the overseas bases in Bandung, Bangkok, Hanoi, Mumbai, Shenzhen, and Singapore introduced their respective overseas bases and the future research collaboration with Kyoto University. The leaders of the four research areas. Urban Governance, Urban Infrastructure Management, Health Risk Management and Disaster Risk Management, also presented their visions for future research in each respective area. More than 350 participants attended the symposium, bringing together not only professors, but also a large number of students, reflecting a growing interest in Human Security Engineering.

A banquet closed the symposium offering the Kyoto University professors a chance to strengthen the ties with the representatives of the overseas bases. The exchange of opinions was fruitful amongst the representatives of the overseas bases, sharing their perceptions and future visions of this program. For detailed information on this program access http://hse.gcoe.kyoto-u.ac.jp.

日時:2008年12月18日

場所:京都大学桂キャンパス 船井哲良記念講堂

2008年12月18日に、京都大学桂 キャンパス·船井哲良記念講堂において、 文部科学省グローバルCOEプログラム 「アジア·メガシティの人間安全保障工学 拠点」に関するオープニングシンポジウ ムが開催された。

本シンポジウムでは,藤井信孝・京都大 学副学長/理事,大嶌幸一郎,工学研究 科長,小林愼太郎·地球環境学堂長,千木 良雅弘·防災研究所副所長より本プログ ラムに対する期待と抱負が述べられると 共に、GCOE拠点リーダーである松岡譲 教授より本プログラムの紹介が行われ た。また、海外6拠点(シンセン、ハノイ、 バンコク、バンドン、シンガポール、ムン バイ)から代表者が招かれ、各拠点の状 況や今後の研究協力へ展望が紹介さ れ、4研究領域(都市ガバナンス、都市基 盤マネジメント、健康リスク管理、災害リ スク管理)の代表者からは、各領域の今 後の研究展望が紹介された。約350名 以上の参加者があり、教員関係者のみな らず、数多くの学生の参加が確認され、 その関心の高さが示された。

本シンポジウム後に開かれた懇親会 では、京都大学関係者と海外拠点関係者 の交流がはかられただけでなく、海外拠 点関係者間での有意義な意見交換がな され、今後の本プログラムのビジョンを 共有する有意義な場となった。詳しくは ウェブサイト(http://hse.gcoe.kyoto-u.ac.jp) をご覧ください。















Program leader Yuzuru Matsuoka

Professor Department of Urban and Environmental Engineering, Graduate School of Engineering, Kyoto University

Kyoto University has launched a new Global Center Of Excellence (GCOE) Program entitled "Global Center for Education and Research on Human Security Engineering for Asian Megacities" in the Graduate School of Engineering (the departments of Urban and Environmental Engineering, Civil and Earth Resources Engineering, Urban Management, and Architecture and Architectural Engineering), the Graduate School of Global Environmental Studies, and Disaster Prevention Research Institute since 2008 fiscal year. This GCOE Program is funded by the Japanese Ministry of Education, Culture, Sports, Science and Technology, in order to "strengthen and enhance the education and research functions of graduate schools, to foster highly creative young researchers who will go on to become world leaders in their respective fields through experiencing and practicing research of the highest world standard." Fulfilling basic human needs and assuring the self-sustainable recovery from environmental pollution and disasters in Asian Megacities have been the major challenges for several decades, and the situation still needs more improvement. One main reason for this unsuccessful situation was the unsystematic management of the technologies and systems for dealing with those risks rather than the rapid growth of cities. Furthermore, past attempts to solve human security issues overlooked the importance of the development of human resources and communities for systematically applying those technologies and systems to their specific problems. From the above awareness, in this program, we will attempt the complementary co-evolution among technologies, urban management, and policy design by putting greater emphasis on local orientation while fully utilizing our rich academic traditions of civil engineering, architecture, environmental engineering and disaster prevention research. With this approach, we will develop the existing individual disciplines into a more comprehensive discipline that encompasses fields such as urban management strategies, urban policy in order to establish human security in Asian megacities, and promote research and education in this new discipline. More specifically, we will work together with universities, research institutions, and private enterprises in Asia through the network of six overseas bases, and foster 20 doctoral students per academic year.

We are looking forward to your response on this new GCOE program.

松岡 譲

京都大学大学院工学研究科 都市環境工学専攻

京都大学工学研究科の地球工学科系 及び建築学のグループ,地球環境学大学 院(地球環境学堂・学舎)及び防災研究所 は,2008年度から「アジア・メガシティの 人間安全保障工学拠点 | のテーマでグ ローバル·センター·オブ·エクセレンス·プ ログラム(GCOE)を実施しております。 GCOEとは、日本の文部科学省が行って いる事業であり、「大学院の教育研究機 能を一層充実・強化し、世界最高水準の 研究基盤の下で世界をリードする創造 的な人材育成を図るため,国際的に卓越 した教育研究拠点の形成」をめざすもの です。アジアのメガシティでは,ベーシッ ク・ヒューマン・ニーズ,環境汚染,災害と それらに対する自立的な対応能力をい かに確保するかが大問題となっておりま す。しかし、過去数十年間は失敗の歴史 でした。都市の膨張が急激に起こってき たこともありますが,さらに重要なこと は、そうしたリスクに対応する技術、制度 の整備がバラバラに行われてきたこと, さらに技術や制度を取り入れても、それ をマネージするコミュニティーや人材の 整備に関心が払われてこなかったためで あります。このような認識に立ち、このプ ログラムでは,土木工学·建築学·環境工 学・防災学をベースとしながらも,徹底し た現場主義に基づき,工学技術と都市経 営管理と制度づくりの相補的な共進化 の促進に力を注ぐことによって,これまで 築いてきた要素的な学問を,人間安全保 障の確保に向け,都市の管理戦略や政策 策定を含む総合的な学問に脱皮させ,そ れに基づいた教育・研究を行います。具 体的には,京都に置く本部拠点に加え,ア ジア地域の6都市に展開した海外拠点を ベースに、各国大学·研究機関·民間企業 などと共同研究を行い,年間20名の博 士課程学生を養成するなど,様々な活動 を実施しております。

このプログラムに関心ある方々の積 極的なコンタクトを期待します。







Hanoi



Rangkok





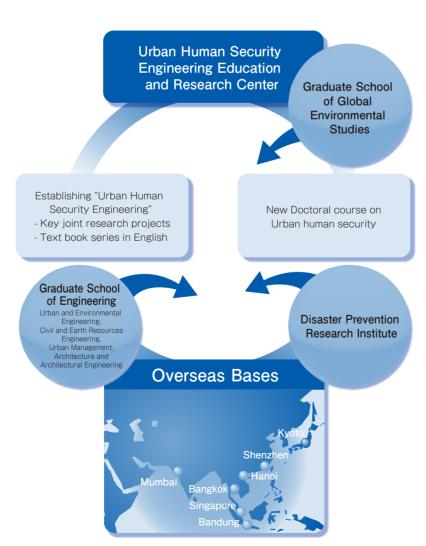


"Urban Human Security Engineering Education and Research Center" in Kyoto (Katsura Campus) serves as the hub for all activity and cooperation for overseas bases. Also, the center is the hub for the graduate schools in Kyoto University associated with human security engineering, i.e. the Graduate School of Engineering (Urban and Environmental Engineering, Civil and Earth Resources Engineering, Urban Management, and Architecture and Architectural Engineering), the Graduate School of Global Environmental Studies. and the Disaster Prevention Research Institute.

The network of overseas bases will be expanded for closer international education and research activities.

京都大学内に設置する 「都市の人間安全保障工 学研究・教育センター」と 海外拠点群を中心に,工学 研究科(都市環境工学専 攻,社会基盤工学専攻,都 市社会工学専攻,建築学専 攻),地球環境学堂·学舎,防 災研究所といった人間安 全保障工学に関連する部 局が総力をあげて研究·教 育活動を展開します。

海外拠点は現在,中国, ベトナム,タイ,シンガポー ル,インドネシア,インドの 6ヶ国に設置されています が,今後も新たに整備され る予定であり、より緊密な 国際研究・教育ネットワー クの構築を目指します。



Research 研究内容

In this five-year program, Kyoto University will establish a new discipline "urban human security engineering" and create a network of overseas bases for research and education on an Asian-wide scale to foster next generation researchers and high-level practitioners. Through this program, we will contribute greatly to solving human security issues in Asian megacities.

本プログラム(2008年度より5年間)では、都市の人間安全保障工学を構築し、それを教育・研究する拠点群の整備を行うことによって、次世代研究者及び高度な 実務者の育成をアジア規模で行います。このプログラムを通じてアジアの人間安全保障問題の解決に大きく貢献します。

Establishing the discipline of "Urban Human Security Engineering"

「都市の人間安全保障工学 | の構築

We define "Urban Human Security Engineering" as a system of technologies (techniques) for designing and managing cities that enable their inhabitants to live under better public health conditions, and also live free from potential threats of large-scale disasters and environmental destruction, as listed in the Millennium Development Goals. For establishing this discipline, four existing fields, i.e. urban governance, urban infrastructure management, health risk management, and disaster risk management, are integrated into one discipline. Also, we will disseminate this new discipline globally through the publication of a textbook series in the English language.

「都市の人間安全保障工学」すなわち「 市民の生活を、ミレニアム開発目標などに 代表される日々の都市生活に埋め込まれた 非衛生・不健康及び大規模災害・大規模環境 破壊などの脅威から解放し.各人が尊厳あ る生命を快適に全うすることができる都市 と都市群をデザイン・管理する技術(技法) の体系」を構築します。これまで実施してき た都市ガバナンス,都市基盤マネジメント, 健康リスク管理,災害リスク管理の4領域に わたる教育科目・研究等の相補的連携と統 合を図ります。また、この成果を英文テキス トとして刊行します。

Human Security Engineering



Urban infrastructure management



Health risk Meanun no.k management



Disaster risk management



Urban governance

■ Research 研究内容

In this program, all the research projects are run on a proposal-basis. Currently, the following projects are in progress. 本プログラムでは、研究プロジェクト提案型の研究推進を行っています。現在、各

研究領域で以下のプロジェクトが進行中です。

Research/education project on reduction strategy of human casualties due to city disasters in Indonesia Development of river bank protection system in flood disaster mitigation and evaluation

Exposure of earthquake related risk potential in Indonesia and development of site-oriented disaster prevention educational materials

Research and education project on active fault evaluation to mitigate earthquake/tsunami disasters at Indonesian megacities

Research and education project on emergency crowd evacuation in Bangkok

Strategy for disaster mitigation of buildings in Asian historic cities

Research and education on flood risk governance in Asian megacities

Research and education on earthquake and tsunami risk management in Asian megacities Implementation strategies of disaster risk management in Asian megacities; focusing on

Implementation strategies of disaster risk management in Asian megacities: focusing on Vietnamese megacities

Implementation strategies of disaster risk management in Asian megacities; focusing on

Implementation strategies of disaster risk management in Asian megacities: focusing on

Study on the consolidation of human security integrated with scenarios toward low carbon societies in Malaysia

Waste management scenario to avoid open dumping

Urban Governance in Asia

A methodology for communication survey for the measurement of social capital Institutional structure and vulnerability of electric power and water resource provision in Asian megacities -comparative institutional analysis approach-

Reallocation of urban space in Asian meracities based on safety, amenity and health Urban governance for conservation and regeneration of dwelling environments and townscape in Asian historic cities

Climate and disaster resilience in Asian cities

Study on urban impacts to living environment in old historic quarters of Vietnam esearch on community-based environmental management methods for Asian megacities

Health Risk Management

Evaluation and management of environmental risk in Asian megacities

Epidemiological study on health effect due to traffic noise Study on dynamics of minor elements in Asian megacities

Development of an integrated drinking water treatment process using membrane filtration in cities of southern China

Controlling policy construction of greenhouse gas and risk management framewor construction of hazardous component discharged from landfill site in Asia region Study on procedure establishment of human security programs for water environmental in

Geo-engineering for waste reuse and management

Policy studies on participatory environmental governance in east Asian megacities Development of bryophyte indicators for urban environments and monitoring based on public participation

A study of environmentally sound water and sanitation system focusing on co-treatment and recycling of waste and wastewater

Asset management of urban infrastructure

Introduction of self-sustaining technologies for small infrastructures using local materials Survey on maintenance strategy for urban infrastructures in Asian megacities

Prediction, mitigation, and monitoring of the damages to earth structures and slopes caused by torrential rains and earthquakes in South Fast Asia

Research and educational project for introduction of environmental accounting into improvement of infrastructure in urban area

Project evaluation of waste management based on development of environmental accounting system Project evaluation on improvement of civil infrastructure based on environmental accounting system

Research and education project on energy supply and demand at Asian megacities

Research on energy supply by zero-emission coal power generation

Time-series analysis of urban heat island effects and energy consumptions in Asian megacities

Urban food security system (integrated river basin management, water resource system and irrigation) Monitoring and forecast of food production and water use using satellite data and crop mode Management of groundwater resources in Asian megacities based on the integration of

soil science, groundwater environment and geotechnical engineering

Water resources vulnerability analysis in Southeast Asia

Urban transport systems and city logistics for safe, secure, and health life in Asian megacities Evaluation of the effect of overloaded vehicles on bridges in urban areas by BWIM (Bridge Weight-in-Motion Sophistication of normal and emergency logistics in Asian megacities

A study of traffic safety and control system for road network in Asian megacities

Three-dimensional modeling of historical buildings in old quarters in Vietnam and Japan

Education 教育活動

Education of next-generation researchers and high-level practitioners for human security in Asia

次世代研究者及び高度な実務者の育成とメガシティにおける人間安全保障の確保

We will foster next-generation researchers and high-level practitioners through a network of international education and research bases. We will greatly contribute to the solving of human security issues by providing roadmaps to escape from the threats mentioned above, and concrete urban management strategies for several Megacities. More specifically, this GCOE program will

- 1 Establish a network of overseas bases
- 2 Establish a new doctoral program
- 3 Implement key joint research projects
- 4 Organize many international symposia and workshops
- 5 Establish "Urban Human Security Engineering Education and Research Center"

By posing specific challenges in human security, it is expected that civil engineering, architecture, environmental engineering, and disaster prevention research will realize their effectiveness and social usefulness, and then our program will create a new and worldwide academic trend as "human security engineering triggered by Asia" including urban management and governance, beyond the boundary of engineering.

これまでに構築・展開してきたアジア諸国での教育・研究拠点を組織化した国際的教育・研究拠点ネットワークにより次世代研究者及び高度な実務者を育成します。またいくつかのメガシティにおいて、非衛生・不健康・大規模災害及び環境破壊などから脱出するロードマップと都市マネジメント戦略の具体的な処方箋を提案し、アジティにおける人間安全保障問題の解決に大きく貢献します。具体的な活動内容は以下のようになります。

- 1 海外活動拠点,海外連携拠点の設置・展開
- 2 新しい博士課程教育プログラムの開設 (年間20名)
- 3 重点共同研究プロジェクト等の推進
- 4 多数のシンポジウム・ワークショップの実施
- 5 「都市の人間安全保障工学教育・研究センター」の 設置・運営

本プログラムにより、これまで独自に先鋭化しがちであった土木工学、建築学、環境工学、防災学といった既存の学問は、メガシティの人間安全保障といった具体的課題を課されることによって、本来的な意味での市民工学としての輝きと社会的有効性を取り戻し、広く工学技術を越え、都市政策学・灯ゲナンスなどをも包含した「アジア発の人間安全保障工学」として、世界的な学術潮流を巻き起こします。

Join Our GCOE Program! *プログラムへの参加



In this program, we will provide you with a practical and unique education and research experience of the highest quality in human security engineering. This program will accept 20 students annually. You have to pass both the entrance exam to one of the four engineering departments (Urban and Environmental Engineering, Civil and Earth Resources Engineering, Urban Management, or Architecture and Architectural Engineering) or the Graduate School of the Global Environmental Studies organizing this program and this GCOE program's own exam. In the latter exam, your project proposal is evaluated. Each department/graduate school has an admission system for working students. Visit our website (http://hes.gcoe.kyoto-u.ac.jp) for more details.

このプログラムではアジア・メガシティの人間安全保障に関する世界最高水準の実践的かつユニークな教育・研究プロジェクトを通じて、次世代の研究者、高度実務者を育成します。年間20人(日本人学生とアジア諸国留学生の比=2:3)の学生を受け入れます。このプログラムに参加するためには本プログラムを構成する部局・専攻(工学研究科都市環境工学専攻、社会基盤工学専攻、都市社会工学専攻、建築学専攻、または地球環境学舎)の博士後期課程入学試験を受験し、本教育プログラム委員会が実施する選考試験に合格する必要があります。選考試験では、入学後に実施する現場主義にもとづく人間安全保障工学に関する研究プロジェクトを提案していただきます。また、各部局・専攻には社会人向けの試験制度も用意されています。詳しくはウェブサイト(http://hse.gcoe.kyoto-u.ac.jp)をご覧ください。

■ As a partnership institution, organization, and company 連携機関・企業として

In this program, we will attempt to solve the problems in human security in Asian megacities. For this purpose, your participation is essential, especially for successful key joint research projects (financial aid available), which are intended to tackle locally-oriented issues. Your participation will create better access to the cutting-edge information on this new discipline and the human resource pool of this program, and more opportunities for future collaboration.

このプログラムでは、アジアの人間安全保障にかかわる問題に実践的にアプローチします。そのため、実際の問題に直面している関連機関・企業との緊密な連携が必要不可欠です。連携機関・企業としてご参加いただくと、プロジェクトの共同実施、本プログラム成果の利用、人的交流など、様々な面でアジアの人間安全保障問題に対する新しいアプローチが可能になります。

Program members 事業推進担当者

		A Superior Services
Name	Affiliated department	Specialized field
Yuzuru Matsuoka	Professor, Graduate school of Eng. (Dept. of Urban and Environ. Eng.)	Environ Systems eng.
^{松岡} 譲	工学研究科(都市環境工学専攻)·教授	環境システム工学
Teruyuki Monnai	Professor, Graduate school of Eng. (Dept. of Architecture and Architectural Eng.)	Architecture and environ. eng.
門內 輝行	工学研究科(建築学専攻)·教授	建築·都市計画
Hiroyasu Ohtsu	Professor, Graduate school of Eng. (Dept. of Urban Management)	Construction eng. systems
大津 宏康	工学研究科(都市社会工学専攻)·教授	土木施エシステム
Hiroaki Tanaka ^{田中 宏明}	Professor, Graduate school of Eng. (Research Center for Environmental Quality Management) 工学研究科附属流域圏総合環境質研究センター・教授	Environ. quality evaluation 下水道工学
Hirokazu Tatano ^{多々納 裕一}	Professor, Disaster Prevention Research Institute 防災研究所·教授	Disaster prevention economics 防災経済学
Eiichi Taniguchi	Professor, Graduate school of Eng. (Dept. of Urban Management)	Urban management systems
谷口 栄一	工学研究科(都市社会工学専攻)·教授	交通計画
Shigeo Fujii	Professor, Graduate school of Global Environ. Studies (Dept. of Technology and Ecology)	Water environ. control
藤井 滋穂	地球環境学堂(地球親和技術学廊)· 教授	水環境管理学
Toshifumi Matsuoka	Professor, Graduate school of Eng. (Dept. of Civil and Earth Resources Eng.)	Geological eng.
松岡 俊文	工学研究科(社会基盤工学専攻)·教授	地質工学
Kiyoshi Kobayashi	Professor, Graduate school of Eng. (Dept. of Urban Management)	Planning and management systems
小林 潔司	工学研究科(都市社会工学専攻)·教授	計画マネジメント論
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Kunitomo Sugiura	Professor, Graduate school of Eng. (Dept. of Civil and Earth Resources Eng.)	Structural mechanics
杉浦 邦征	工学研究科(社会基盤工学専攻)・教授	鋼·複合構造工学
Tomoharu Hori	Professor, Disaster Prevention Research Institute	Water resources eng.
堀 智晴	防災研究所·教授	水文循環工学
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伊藤 禎彦	地球環境学堂(地球益学廊)·教授	上水道工学
Keiichi Toda	Professor, Disaster Prevention Research Institute	Urban flood control
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