Feat	ure Section: Local Reproduction with Citizens' Participation in Municipal Affairs
1.	Soil Improvement and Vitalization of Rural Area at Agano City (Former Sasakami Village) in Niigata Prefecture AODA Tadao and IWABUCHI Shigeki 3
2.	Challenge to Construct a Biomass Town
	YUYAMA Yoshito, KUSAKABE Masanori, ABE Kunio and NAKAZAWA Kosuke 7
3.	Rural Revitalization with Regional Resources and Leader
	Taniguchi Ken, Sato Masahiko, Fujisaki Hiroyuki and Kato Koh11
4.	Study of Revitalization Method of Rural Area that Utilized a Land Consolidation Projects
	Conformable to Regional Environment
	TAMURA Takahiro, SASAKI Tsutomu, Tokita Yutaka and SASAKI Koya·····17
5.	Study on the Actual Conditions and Problems of Community Re-vitalization by Partnership
	between Residents and Public Office of Ogawa Village, Nagano Prefecture
	Kokawa Noriko, You Hagyeol and Senga Yutaro23
Rep	orts
Tl	ne Evaluation Method for Completion of the Landslide Preventive Constructions in the Zinseki-Kougen Area
	TANAKA Kenichi, Umayahara Tooru, Fukudome Masaaki and Nagata So·····27
Ex	sperimental Study on Preventable Action of Geogrid against Embedded Pipes' Buoyancy in
	Peaty Ground
	HIDESHIMA Yoshiaki, HINATA Masanori, KUSAKA Nobumasa and NISHIKAWA Hiroji ······31
Tech	inical Reports
	evelopment of Rural Information System in Makkari Village MONMA Osamu ·····41
	echnical Co-operation of "Irrigation Management" with Jilin Province, China
731	Goкo Masaharu·····43
PI	anning Method for Environment-friendly Land Improvement Project in Relatively Hilly Area
	ARAI Tadao ·····45
	fort toward Renewing Methods of Irrigation and Drainage Facilities Komeyama Motoaki47
Si	apport System for the Regional Disaster Prevention by the Investigation of Reservoir to
	NANKAI Earthquake Disaster TSUNEISHI Mitsuyasu ·····49
	ninase Tunnel's Collapse Accident and Recovery KAWABATA Hideaki51
	nnical Word
	artnership SENGA Yutaro ·····22
Seri	
Т	oward the Holistic Use of Biomass Resources (8)
	—Future prospects for biomass utilization system—
	Sakoda Akiyoshi, Mochidzuki Kazuhiro and Yuyama Yoshito53
	お知らせ

○平成 17 年度農業工学研究所研究会の開催について (第 1 報)/36



JOURNAL OF THE JAPANESE SOCIETY OF IRRIGATION, DRAINAGE AND RECLAMATION ENGINEERING

Feat	ure Section: Groundwork Activities in Rural Area		
1.	Outline of Groundwork Approach in the UK Today	Matsushita Shigeo	3
2.	Actions to Local Reproduction of Groundwork Mishima	WATANABE Toyohiro	9
3.	Efforts and Challenges to Revitalize Groundwork Activity	in Isawa Plain	
	Fujra	A Masaru and SASAKI Toru	13
4.	Oji Paper Group's Groundwork Action	Matsubara Kikunori	17
Repo			
-	pact of Organic Resources Utilization to Water Quality Env	ironment	
	Yuyama Yoshito, Nakamura M		21
Gr	owth Experiment of the Turf Grass Using the Vegetation 7		
		and YONEMOTO Takamasa	27
Ca	rbon and Nitrogen Stable Isotope Ratios of Attached Matte		
	Isawa-nambu Project	Mori Atsushi	31
Ch	ange of Water Quality after Reconstruction of Creek, in Sh	iroishi Area	
	- · · · · · · · · · · · · · · · · · · ·	nori and NAKANO Yoshisuke	37
Tech	nical Reports		
Re	cognitions and Utilization Situations for Multipurpose Applic	cation of the Drain Pipe	
		MURA Atusi and INABA Kenji	41
Co	onservation of Rural Resources by Residence Participatory I	Direct Management	
	Construction Sugawara Tokuzou, Mori Mich	nio and HASEYAMA Kazunori	43
Sa	fety Operation of Kawsumigaura Pump Station by Duplex (Configuration of Electric	
	Circuit	O _{DU} Mitsuo	45
Co	onservation of Endangered Species' Habitat in the Rehabilit	ation Project of an	
	Irrigation Pond	Yamamoto Shuhei	47
Th	e Approach of "Investigation Creatures in Rural Waterside"	in Ehime Prefecture	
		Kamada Kouji	49
Ef	fect of Grass Bands on Erosion Control of Plowed Layer S	oil (in Okinawa)	
	Tamashiro Kazuya, Nakashima K	eitaro and Shiono Takahiro	51
Tech	nical Word		
Ad	lopt System	SAITO Yasushi	53
	書評 ○きゅうりの声を聞いてごらん:森 久美子著(柵木 環)		
	お知らせ	•	
	○平成 18 年度(社)日本地すべり学会第 45 回研究発表会および現地見学 ○平成 17 年度農業工学研究所研究会の関係について /8	会について/8	

○第 296 回コンクリートセミナー技術者に求められる変化への対応/58



JOURNAL OF THE JAPANESE SOCIETY OF IRRIGATION, DRAINAGE AND RECLAMATION ENGINEERING

Feature Section: Conservation of Regional Resour	cces and Agricultural Engineering	
Policies for Improving Agri-environment in Rural	Areas SHOBAYASHI M	likitaro ····· 3
Conservation of Agricultural Resources by Revita	llization in Rural Areas	
KUNIMIT	SU Yoji, TSUDA Wataru and SAIGA	Yukiya ···· 9
Use of an Agricultural Water Supply Facilities at	a Large-scale Earthquake	
	Kondou Fumio and Tamura N	Voriaki ·····13
The Integration to Strengthen Land Improvemen	t District, Leading Part of Mainte	nance
of Rural Regional Resources	Goko Masaharu and Miwa I	Hajime ·····17
Reports		
Low-cost Environmental Burden Decrease Case 1	by using the Vacuum Consolidatio	on
Method		
WATANABE Keishiro, KUBO Masaal	ki, Ishikawa Futoshi and Inoha Hi	dehusa ·····21
Proposal of Compost Demand Forecast Technique	ie by Choice Experiments AIZAKI	<i>Hideo</i> 25
Water Quality Characteristics of Drainage from I	Paddy Field Area and Influence of	f the
Drainage on River Water Quality	YAMAGUCHI Yasuharu and HATA	1 <i>Kenji ···</i> ··29
Technical Reports		
Attention to be Paid from the Viscosity of Slurry	y in Designing Cow Manure Trea	tment
Facility	TERAYAMA Kouhei and YASUI	Seiichi 35
Management of Irrigation Canals by Local Residence	ents (Adoption) CHIBA	Tsuyoshi $\cdots \cdot 37$
Experiments to Improve the Function of Facility	for Small Animal to Escape from	l
Drainage Canal	SAKAMOTO Yoshihiro and OKA	<i>Naoko</i> 39
Action for Saving Labor in Management of Leve	e and Slope with	
Eremochloaophiuroides Hack	Taniguchi Ka	zuyuki ·····41
The Spin-Klin Disk Filter	KAWAKAMI Hideki and SEGAWA	<i>Kunio</i> 43
Introduction of TBM for Construction of Hamano	ose Head Race SASAKI Ma	asahiro ·····45
Series		
Introduction to "SUIDO" Culture (Culture of Lar		
—Essence of "SUIDO" culture in the per	rspesive of wisdom based on land	and water—
	HIRO	SE Shin ·····47
Technical Word		
Rural Resources	Muraoka I	Hiroshi ·····53

お知らせ ○平成 17 年度農業工学研究所研究会の開催について (第3報) ······8 .



Devel Areas Impact of the Landscape Law-	
Feature Section: The Beautiful Landscapes in Rural Areas—Impact of the Landscape Law—	
Problems of Village Land Use Plans Prepared through Popular Participation	,
Koike Satoshi 3	5
Virtual Action Characteristic Using Mental and Vision Evaluation of Rural Landscape	
YAMAMOTO Tokuji ····· S)
Study for Estimation and Preservation of Rural Landscape by Questionnaire	
NAITO Kaoru, SUDA Ryuji and MORIYA Takashi ····· 13	}
Conservation of Rape Blossoms Landscape with the Contribution to Regional Development	
HATTORI Toshihiro ····· 17	7
Application of Workshop Method for Improvement Planning of Historical Streetscape	
WAKE Riyo, ICHII Kenji and TAKEYAMA Emi ····· 21	Ĺ
Reports	
Estimation of Solar Radiation Using 5 m Mesh Digital Elevation Model UEYAMA Hideki ····· 25	õ
Utilization of High Resolution Satellite Imagery for Field Investigations	
SUZUKI Kenji and YAMAMOTO Yukiyo ····· 29)
The Sediment Damage in the Paddy Field by Dikebreak in the 7.13 Flood	
INABA Kazunari and HAYAKAWA Kaichi ····· 33	3
Indicators for Risk Assessment of Deteriorated Reservoir Break/Washout by Applying	
Multivariate Analysis	
BABA Noriyuki, KOBAYASHI Kenichi and SHINOZAKI Takeshi ····· 3'	7
Technical Reports	
A Long Term Evaluation of Coast Conservation Method for Agricultural Land Located on	
Abrasion Sea Cliff YAMASHITA Kaoru and SEKIGUCHI Junji · · · · 4	3
Work Study Programs for Children in Rural Areas by Partnership between NPO and	
Aomori Prefecture HANADA Shuuichi ····· 45	5
Selection Study of Shinbori River Seawater Regulating Gate Type	
KAWABE Akihiro and MATSUI Hisakazu ····· 4'	7
Replacement, Design and Construction Method of Bottom Intake by Flexible Pipe in a	
Small Earth Dam Konnma Kiyoshi 49	9
Planning for Headworks with Natural Stones ANAMI Hinata and YAMAGUCHI Masaru 5	1
Series	
Introduction to "SUIDO" Culture (Culture of Land and Water) (2)	
—Interpretation of "SUIDO" culture— HIROSE Shin ····· 55	3
Technical Word	
The Rural Landscape Master Plan in Agricultural Development Promotion Area	
Hayashi Yasuo 5	9
お知らせ	
○平成 18 年度(社)日本地すべり学会第 45 回研究発表会および現地見学会の開催について/8	
○独立行政法人国立環境研究所シンポジウム 2006/80	



Feature Section: The Present and the Future for International Issues in the Filed of Irrig Drainage and Reclamation	gation,
The Present Status and Future Developments of ICID SUMITA Yutaka and TANIYAMA Shigetaka	2
J-Green's Actions to Prevent Desertification J-Green's Action	
Challenge for Promotion of Participatory Irrigation Management	Į
INAKI Michiyo, MINAKAWA Takeshi and OHGUSHI Kazunori	13
About the Activity of International Network for Water and Environment in Paddy Fields	10
WATANABE Shiro, Aoki Kohei and Fujisawa Tomomi	17
Special Report: International Society of Paddy and Water Environment Engineering "PAW	
Report on PAWEES 2005 International Conference Matsuno Yutaka	21
PAWEES 2, 2005 International Symposium Report 1, Multi-functional Role of Rice Paddy	
SHINOGI Yoshiyuki and YAMAOKA Kazumi	23
Report of the 2005 International Conference—Integrated water management (Session 2)	
MASUMOTO Takao	25
Report on the Session No.3 on Environment and Food Security of PAWEES International	
Workshop 2005 WATANABE Tsugihiro	27
The 4th International Conference on Educational Accreditation System and APEC Engin	eers
Project for Agricultural Engineering in Paddy-Farming Regions	
MASUMOTO Takao	
2005 International Conference on Paddy and Water Environment and the Third International	onal
Awards of PAWEES in Taiwan NAKAMURA Kimihito	31
Reports	
Changes in the Water Balance of a Nature-friendly Channel Renovation of the Gente Riv	7er
HIROSE Shin-ichi, TAKIMOTO Hiroshi and OKADA Susumu	33
Practical use of Water Harvesting and Small Scale Irrigation in Ethiopia	
NARUOKA Michio, IKEUCHI Toru and NAKAMURA Toshiro	37
Technical Reports	40
Design of Sheet Pile Cut-off for a Regulating Reservoir SASAKI Takahiro 1. Design of Sheet Pile Cut-off for a Regulating Reservoir	43
Possibility of Ecological Network for Migration Birds in Dams and Paddy Fields on	15
Hasamagawa Upper Basin KATO Syuichi (Dankar 1956) from the Inviention T	
Case Study for Removing the Limnoperna fortunei (Dunker, 1856) from the Irrigation T for Canal in Kaburagawa LID Yoshida Makoto	uiiiiei
Public Velation Activities on Agricultural Infrastructure Improvement and Rural Developm Projects in Areas of Below Sea Level HAYASHI Kenya	10
Projects in Areas of Below Sea Level Consideration through the Practice of Community Support Activity HAYASHI Kenya SAKANE Isamu	
The Creek Consolidation Projects Considering the Natural Environment	01
Ono Rikizou, Azuma Tokinori and Nagamatsu Saya	53
Series	00
Introduction to "SUIDO" Culture (Culture of Land and Water) (3)	
—Investigations on objects in "SUIDO" culture 1— NAKA Tatsuo	55
Technical Word	
Human Security Nakai Masashi	61
Tumui Socurity	
書評 ○湖の水質保全を考える一霞ヶ浦からの発信―:田渕俊雄著(武田育郎)····································	3
お知らせ ○官民連携新技術研究開発事業における研究開発課題の募集	2
TO THE CONTRACT OF THE PROPERTY OF THE PROPERT	





Feature Section: Introduction to some Projects about Agricultural Improvement and Rural Development in Kanto Area	Infrastructure
Orchard Land Readjustment in Shizuoka, for Revival of "Kingdor	n of Mandarin Orange"
	Ishida Atsushi ····· 3
Activities of Tochigi Prefectural Government for Environmental C	
	AKIYAMA Takayuki ····· 5
Developing Production Infrastructure in the Kyoutou Region of Y	
	FUKUSHIMA Ichiro ····· 7
Creation of Regional Resource to Start by Agricultural Engineerin	
Onobori Hirofumi	and KINOSHITA Akihiko 9
Agriculture Reclamation of "Higata Hatiman Goku" Area	INOUE Toshinari ····· 11
An Action of Half Cone Type Fishway Improvement in Tama Riv	
The History and the Practical use of Irrigation Water in Saitama	
The Reconstruction of the Zenkoji Irrigation Channel-May our of	desire be heard! working
toward the protection of Genji Fireflies-	KAI Takamitsu ····· 17
Developing at the Vegetable Production Area Using the Source of	of Water-supply from
Kasumigaura-yousui Irrigation System	HATSUDE Takeshi ····· 19
The Westfoot of Akagi where Benefited by Springwater	SAKAI Kazuo ····· 21
Technical Reports	
Instances of Environmental Consideration of Open-channel Draina	ge in Hokkaido
Tanaka Hiroyuki	and Aoyama Hirotoshi 23
A Case of Bank Construction with Attention to Environment—Re-	cycling use of dredged
sludge and used papers—	Nakanishi Seijirou ····· 25
Farm Land Consolidation in Landslide Area KOBASHI J	Iun and SIRAISHI Akira ····· 27
Application of Non-Staging Method to Sheetpile Installation Work	
	Uno Kenichi ····· 29
Action to Harmonize with Environment in Construction Wide Are	
	TAKATA Yoshio ····· 31
Temperature Cracks in Mass Concrete	IKEMORI Ryoichi ····· 33
Series	
Introduction to "SUIDO" Culture (Culture of Land and Water) (4)	
—Investigations on objects in "SUIDO" culture 2—	Matsumoto Seiichi ····· 35
Technical Word	·
Roof-garden	KATO Makoto ····· 41



Feature Section: Wetland Management for the Conservation of Environment
Water Balance and Temporal Change of Soil Moisture in Clustery Field of Hydrophytes
Hoshi Toru, Fujii Katsumi and Kurashima Eiichi 3
Wetland Hydrology and Hydrological Aspects of Wetlands, Eastern, Hokkaido
Tsuchihara Takeo, Ishida Satoshi and Imaizumi Masayuki · · · · Т
Groundwater Table Control by Trench Irrigation for Restoration of Indigenous Vegetation in a
Bog IIYAMA Ippei, FUJIMOTO Toshiki, NAGATA Osamu and HASEGAWA Shuichi 11
Occurrence, Behavior and Role of Methane Bubbles in Peatlands
Tokida Takeshi, Miyazaki Tsuyoshi and Mizoguchi Masaru ····· 15
Water Environmental Conservation by Farm Land Consolidation and Future Subjects in
Akaiyachi Mire SASADA Katsuhiro, KOHNO Eiichi, SHIMADA Masafumi,
Asano Hiroomi, Sato Nobuo and Hirano Teruhito 19
Reports
New Type Earthquake-resistant Reinforcing Method of Old Earth Dam Embankment by
Cement-mixed Soil Fukushima Shinji and Tani Shigeru · · · · 23
Consideration on Utilization of Hydrogen Originated from Biomass in Dairy Farming Villages
HIDESHIMA Yoshiaki, OHKUBO Takashi and SHUDO Yukoh ····· 27
The Maintenance Management and Invasion of Alien Plants on the Restoration and Creation
for Riparian Environment TSUJI Morio and AKUTSU Kenji 33
Technical Reports
Guided Horizontal Boring for Polyethylene Pipe Installation under Roads
Tahara Kazunori and Hukutomi Takayoshi ····· 35
Field Examination of Utilization of Government-constructed Irrigation Canals for Melting
and Flushing Snow KAWAUTI Isao and KOIKE Tomomi 37
Introduction of Approach Case with Land Improvement District in which it Aims at Regional
Resource Circulation Type Agriculture Matsumoto Chikara 39
Outline of a Project for an Improved of Information System on Irrigation and Drainage
Facilities Management Agains Natural Desaster URATA Masaji 41
The Turf Controls Weeds! —Greening of levee slant by Yamaguchi Prefecture's method—
ZENIMOTO Tohru ····· 43
Introduction of the Cost Estimate Method Machineries using Unit Price
IKEDA Akira and MASUDA Hiroyuki ····· 45
Series
Introduction to "SUIDO" Culture (Culture of Land and Water) (5)
—A consideration on the persons who created "SUIDO-culture"—
SHIGEOKA Tetsushi ····· 47
Technical Word Subsurface Flow Constructed Wetland KATO Kunihiko 53
Subsurface Flow Constructed Wetland KATO Kunihiko 53
書評 ○村の肖像:川尻裕一郎著(廣瀬 伸)91
お知らせ
○ 果 京 晨 業 大 字 地 攻 塚 境 科 字 部 教 貝 の 公 券 に う い で
○東京農工大学科学技術振興調整費による研究者の公募
○近畿大学理工学部社会環境工学科教員公募・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
○兵庫県立淡路景観園芸学校・景観園芸専門課程平成 19 年度生の募集 · · · · · · · · · · · · · · · · · · ·
O TAX TO TAX ONLY BY TAX ONLY



Feature Section: Wetland-like Management of Agricultural Lands Restoring of Farmland and Wetland in Sarobetsu Peatlands	
Nakase Hiroshi, Sonou Mitsuyoshi, Nakazima Kazuhiro and Aizawa Yoshinori · · · · · · To Develop the Theory for Nitrate Removal in Wetland Tabuchi Toshio · · · · · · Actions to Environmental Conservation and Regenerated Sustainable Agriculture in Izunuma, Uchinuma Mitsuzuka Makio, Sayama Masasi, Yuuki Ayumi and Shindo Kentaro · · · · · 1	7
Environmental Potentials of Winter-flooded Rice Fields for the Wetlands Restoration Kurita Hideharu, Mineta Takuya, Ishida Kenji, Ashida Toshifumi and Yagi Hironori 1 The Process of Coopertation between Winter-flooded Rice Field and No-tillege Rice Farming,	. 7
and Foresight of this Culture MAKIYAMA Masao and TSUKAMOTO Takayuki 2 Reports	23
Estimation of an Air Temperature Distribution Property and an Agricultural Promotion Using 50 m Mesh Map	
UEYAMA Hideki, YAMASHITA Yusaku, YAGI Hironori and Ooro Koohei ····· 2 Removal and Use Technology of the Dam Sediment	<u>?</u> 7
WATANABE Keishiro and Onoda Kouji · · · · · 3 Operational Outline and Perspectives of The Betsukai Centralized Biogas-Plant in Hokkaido ISHIWATA Teruo, YOKOHAMA Mitsuhiro, ISHIDA Tetsuya,	
Ono Manabu and Obinata Yutaka ····· 3 Technical Reports	1
An Attempt in Hokkaido to Produce Good-tasting Rice: Mixing Outsourced Earth in the Topso of Paddies with Peat Bed MIZUMA Keiji SAKAI Matsunobu 4	
Irrigation Tank Construction for Restoration of the Damaged Agricultural Water around Ohjojihara Maneuvering Ground	
Syoji Tsunematsu, Tsunoda Hideyuki and Chiba Dai · · · · · 4 Monetary Valuation of the Positive Externalities Created by the Osato Irrigation System Shimada Toshio · · · · · 4	
Emergency and Drastic Measures against Imminent Slope Failure	
ITOU Yutaka and TSUJI Akihiro ····· 4 Supplementary Works for Portals of the Moritani Tunnel FUKAGAWA Shoji ···· 5 Development of Aquatic Fauna-friendly Precast Concrete Flumes	
Kashima Koichi, Watanabe Tetsuya ····· 5	3
Series Introduction to "SUIDO" Culture (Culture of Land and Water) (6)	
—Investigations on affairs in "SUIDO" culture— OGAWA Naoyuki ······ 5 Technical Word	ъ
Tropical Peat Fire TAKAHASHI Hidenori 6	1
書評	
塚本明美・岩田進午著(松岡生磨) お知らせ	
○東京農業大学教員の公募について・・・・・ / 78	



Feature Section: Relation between Land Consolidation Proje	ect and Agricultural Regal Person	
Let's Create Large-sized Paddy Fields of Originality Throw		
	FUJISAKI Hiroyuki and YAMAJI Eiji 3	
Problems for Organizing Collective Farming System in Farm Land Consolidation Areas of Isawa Ward KAMIJO Yuki, ANBAI Kenya, TADA Norio and SENGA Yutaro Farm Machine's Effective Field Capacity at Contract Paddy Field of Irregular Shape		
in Mountainous Area HOSOKA	AWA Masatoshi and UCHIDA Haruo ····· 13	
Problem with Underdrain Plan in Farm Land Consolidation CHIBA Katsumi, ONODERA Junko, OGAWA	n and an Example its Solution Tsutomu and NAGAYOSHI Takeshi 17	
About the Agricultural Production Legal Person Based on Prefecture	Rural Communities in Hiroshima <i>KAKUBO Akinori</i> 21	
Reports		
Recovery of <i>Pungitius pungitius sinensis</i> in an Eco-conserv <i>HIROSE Shin-ichi</i> , <i>TAKIMOTO Hirosi</i> , <i>WATANAI</i>	BE Naomi and HIGUCHI Masataka ····· 23	
Development of Application Program to Estimate Hydro-po Water Channels KOBAYA	ower Generation Potential on ASHI Hisashi and HAYASHI Masaki 29	
A Design and Construction of Koda Dam on Mudstone F	oundation	
OKUMURA Takio,	SATO Shouetu and TAMIYA Kenji 33	
Technical Reports		
An Example of Crawfish (cambaroides japonicus)-friendly I	Rehabilitation of Drainage **HASEGAWA Shoji ***** 37	
Ground Improvement by Dry Jet Mixing Method to Stabil		
Irrigation Tank Water Quality-based Operations and Maintenance of Rural	Sewage Plant and Beneficial	
Use of the Sludge Lining Drainage Canal Revetment with Block-mat	KOYAMA Seiji ····· 41	
Sugmore Participatory Improvement of Irrigation Tanks for the Creation		
D. 1. 1224 Communication of the Communication of th	WAKI Shigeru ····· 45	
Rehabilitation of an Overage Excavated Reservoir Lined w		
	AMURA Shiho and MIYAGI Takashi · · · 47	
Technical Word	NAKAMURA Yasuaki ····· 28	
Agricultural Production Legal Person	NAKAMURA Yasuari ····· 28	
Series Introduction to "SUIDO" Culture (Culture of Land and W	oton) (7)	
—The method of research into "SUIDO" culture (
—The method of research into Soldo culture (
	YAMASHITA Yusaku ····· 49	
お知らせ	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	
○鹿島学術振興財団研究助成候補者募集		
○農業と環境を考える―農環研研究成果発表会 2006― ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	/68	



Reports	
The Actual Circumstances of Percolation of Direct Seeding Culture of Padd	y Field
HISADA Munemasa, ITO Kengo and SI	ENGE Masateru ···· 3
A Case of Environment Conservation in Land Consolidation	
CHIKADA Masaki, HAYASE Shigeru and OF	KADA Nobuhiko ····· S
Repairing Method of Old Irrigation Pond using Mixed Decomposed Granite	
SAKAI Toshinori and MANA	
A Sediment Treatment Method with Returning the Sludge after Aeration on	
SAKEMOTO Yoshiji, OGISO Tsuneyoshi and WATAN	
Strategy of Regional Resources in the Age of Decreasing Population H	
Investigation of a Defective Joint Factor and Actual Condition in a Large-cal	
Concrete Pipe BABA Shinichi, HORIUCHI Takahide and	
A Study of Presumption of Coefficient of Permeability by Ground Water Mo	
	MA Yoshikazu ····· 31
· · · · · · · · · · · · · · · · · · ·	
Production and Use of Fuel Ethanol in Brazil —Well-to-Wheel assessment o	n iuer emanor <i>YASHI Hisashi ····</i> 35
France	YASHI Hisashi ····· 33
Technical Reports	
Development of Water-Purification Drainage Canals in the Hamanaka Distric	
OOSUGI Syusaku, TAKEBE Takeshi and I	
· · · · · · · · · · · · · · · · · · ·	KANUKA Koji · · · · 43
taran da antara da a	AOKI Hiroshi · · · · 45
Development of "Fish Habitat Pit" for Making Irrigation and Drainage Cana	
Ecosystem-friendly	TAYA Tetsuya ····· 47
Farm Road Construction in Ochiai Village in Harmony with Scenic Beauty	
Important Traditional Building Complex—An Attempt in Higashiiya A	Area of the
Prefectural Comprehensive Development Project for Vitalizing Hilly a	and Mountainous
	HI Toshimasa · · · · 49
Rehabilitation of Overage Canal Tunnels HIRAKO	DBA Masataka ····· 51
Series	
Introduction to "SUIDO" Culture (Culture of Land and Water) (8)	
—Announcement method of "SUIDO" culture— YAMA	AMOTO Tokuji ····· 53
Technical Word	
Continuing Professional Development	SATO Hiroshi · · · · 59
	!
書評 ○ ○	8, 74
○知っておきたい斜面のはなし Q&A―斜面と暮らす― 土木学会地盤工学委員会斜面 工学研究委員会編(堀 俊和)	/8
○魚類環境生態学入門 猿渡敏郎編著(小出水規行)・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	·····/74
i di kacamatan da k	



Feature Section: Leading-edge Observation Technology		
Monitoring for Investigation of Field by Simple 4 Band Camera System	with Stereo Photo	oranhy
SHIMADA Hiroshi, SHIMA Eikichi, TANAKA Katsuyuki, NAGAYOSHI T		
HATTORI Toshihiro, KATO Wataru an		3
Non-invasive Monitoring for Soil Moisture Distribution using Ground I	-	
KURODA Seiichiro, Somsak Sukachan, HAMADA Ha		
	nd TAKEUCHI Mutsuo	····· 7
Monitoring of Fertilizer Nitrogen Behaviors by Using Monolith Lysime	eters with a	
Closed-chamber		
FUJIKAWA Tomonori, NAKAMURA Masato, YUYAN	AA Yoshito, MAEDA I	Morihiro
	and OTA Takeshi	11
Development and Application of New Groundwater Monitoring Method		
TSUCHIHARA Takeo, YOSHIMOTO Shuhei, ISHIDA Satoshi and	_	15
Reports	IMAIZOMI Musuyaki	10
Establishment of Asbestos Measures Manual in Agricaltural and Rural	Dovolonment	
· · · · · · · · · · · · · · · · · · ·	_	10
	and KANAMITSU Joji	19
A Direction in Cooperation in the Field of Agricultural and Rural Dev	_	
OHIRA Shozo, ONIMARU Tatsuj	i and DOI Yoshihiro	····· 23
Technical Reports		
A Participatory Workshop for Drawing a Regional Development and In	nprovement Schem	ie
—An attempt in Rokugo, Furano of Hokkaido—	MIKAMI Sonoko	27
Community Participation in Setting Up an Ecomuseum in Shimamori	Area of the Rural	Space
Development Project	IKEDA Katsuyuki	-
Government-subsidized Water Right Transfer Project in Fuefukigawa A		
Encouraging Regional Symbiosis through Wise-use of Water Re		
	and ITOU Motonobu	21
Planning of Antiseismic Measures for Existing Land Improvement Factor		31
•		22
	URAYAMA Toshikazu	
Blocking of Shield Tunneling by Highly Pressurized Groundwater and		
Resumption	MURATA Hisao	
Building an Arch Bridge Using Lowering Method	KAMIKAWA Koji	$\cdots 37$
Series		
Introduction to "SUIDO" Culture (Culture of Land and Water) (9)		
—Field of "SUIDO" culture 1: Conservation and application of	the heritage—	
NAMIHIRA Atsushi, GOTO Masahir	o and NAKA Tatsuo	39
Technical Word		
Greenhouse Gas Emission from Paddy Fields	IIDA Toshiaki	45
		10
お知らせ	10 AC	2
○東京農工大学教員の公募について·······		3
○多麼川およびその流域の環境海化に関する基礎研究 応力研究 環境改善計画のための		



Feature Section: Government-operated Integrated Upland Field Improvem Hokkaido	ent Pilot Projec	ts in	
Government-operated Integrated Upland Field Improvement Pilot Projects	s in Hokkaido		
OHSAWA Kenshu, IIDA Atsuo, ENDOU Teruo, Oono Yukio, Yokoi Eiji and		<i>i</i>	3
Investigation of Large-scale Field Irrigation System in Shamoh Region	110BOIA Tuuusn	ı	J
UEDA Masakatsu, KUDOU Yuuji, TAKAMA Tamaki, SATOU M	Iasaaki Iuro K	atsush	iro
	Hamada Yukihiro		
Construction of Large-scale Field Irrigation System in Shamoh Region	111111111111111111111111111111111111111		·
UEDA Masakatsu, Kudou Yuuji, Furukawa Keisuke a	and Oono Yukio		15
Implementation and Evaluation of Integrated Upland Field Improvement			
Region	,		
KAWAGUCHI Kiyomi, AZETSU Tomoo, UEDA Masakatsu, FURUKAWA Keisuke and	Кікисні Міпоги	• • • • • •	19
Reports			
Reduction of Surface Runoff Loads from Paddy Fields by using the Irrig	gation-Drainage	Contro	1
Unit	,		
KANEKI Ryoichi, FURUKAWA Masayuki, NAMIKAWA Haruka and	Tanaka Tadashi	• • • • • •	23
A Study of Rural Environmental Conservation and Regeneration Activitie	s by Local Part	nershij	ps
in a Waterway for Agricultural Use			
WATANABE Toyohiro, MATSUSHITA Shigeo and		• • • • • •	29
Roles and Effect of Underground Dam in Southern Region of Okinawa			
Nawa Norio, Aoki Susumu		•••••	33
Selection of Bridge Type that has Large Span in the Case of Sannohebe			
HASHIBA Kiyohiro, MARUYA Yuki and	Kuromi Hutoshi	•••••	37
Technical Reports			
Questionnaire Survey-based Mapping of Rural Resources	1.1.00		
Ishida Yasuhiro		•••••	41
Conservation of Japanese Firefly (Luciola laterlis) Habitat in Construction			4.0
	KANNO Toshihito		45
Government-subsidized Water Right Transfer Practice in Fuefukigawa Ar Encouraging Regional Symbiosis through Wise-use of Water Rese		or	
Asakawa Yoshiyuki and			15
Design of Beach Nourishment for Agricultural Land Protection Using O			40
Numerical Model Numerical Model IZUMA Yoshinori and			17
Construction of a Sludge-Composting Plant for Promotion of Sound Mate			т,
	MATSUGI Akinori		49
The Process for Constructing Cut-off Wall of the Ie Underground Dam			10
SAEKI Kazuhide, MIZUTANI Katsuhiro and	Nakada Masaki		51
Series			
Introduction to "SUIDO" Culture (Culture of Land and Water) (10)			
—Field of "SUIDO" culture 2: The movement to create 21st cer	ntury by		
Land Improvement Districts ("MIDORI" NET) —	Ota Katsuya	•••••	53
Technical Word			
Hydrant Valve for Sprinkler Irrigation	Chiba Takashi	•••••	59
		7	
書評 ○富山の水環境・富山退立大学環境システム工学科編(吉田青十)		4 !	