



**LTBD**

**2017**

**4<sup>th</sup> International Conference on Long-Term  
Behaviour and Environmentally Friendly  
Rehabilitation Technologies of Dams**

17-19 October, 2017  
Tehran- Iran

**FULL PAPER  
SUBMISSION**

**31<sup>st</sup> August, 2017**

**Venue:**

**IRIB International Conference Center**



**Organized by:**



Islamic Republic of IRAN  
Iran Ministry of Energy



Iranian National  
Committee on Large Dams



International Commission  
on Large Dams



Iran Water Resources  
Management Company



Iran Water and Power  
Resources Development Co.



Shahid Beheshti  
University



Graz University of  
Technology

## TECHNICAL SESSION A

### **THEME1: METHODS OF ANALYSIS AND DESIGN OF EARTH, ROCKFILL AND CONCRETE DAMS INCLUDING EXPERIMENTAL, ANALYTICAL AND NUMERICAL INVESTIGATIONS**

ROOM: FEYZ CHAIRS: Prof. EDUARDO ALONSO - Prof. ERICH BAUER - Prof. SEYED AMIRODIN SADRNEZHAD

E0015	NUMERICAL SIMULATION OF POST-CONSTRUCTION DEFORMATION OF A CONCRETE FACE ROCKFILL DAM
	MOHAMMADKEYA KHOSRAVI, LINKE LI, ERICH BAUER
E0032	NUMERICAL INVESTIGATION OF DAMAGE TYPES THROUGH CONCRETE DAM BY MULTI-LAMINATE MODEL UPON INSTRUMENTATION DATA
	SEYED AMIRODIN SADRNEJAD
E0033	NON-DESTRUCTIVE NUMERICAL INVESTIGATION OF LOCAL HEAVE/LIQUEFACTION THROUGH ROCK-FILL DAM UPON INSTRUMENTATION DATA
	SEYED AMIRODIN SADRNEJAD
E0034	EVALUATION OF COLLAPSE DEFORMATION BEHAVIOR OF A ROCKFILL MATERIAL USING LARGE SCALE TRIAXIAL TESTS
	AHMADREZA TABIBNEJAD
E0047	ANALYSIS AND DESIGN OF FERROCEMENT CUT OFF TRENCH IN EARTHEN DAM : A CASE STUDY OF BHAM DAM
	SUNIL KUTE, PATIL N. P., EBRAHIM FARAJPOUR BONAB, SUSMIT KUTE
B0016	ROCKFALL HAZARD ASSESSMENT IN THE RIGHT ABUTMENT OF SEFIDRUD DAM, GILAN, IRAN
	MAHNAZ FIRUZI, ALI NOORZAD, MOHAMMAD HOSSEIN GHOBADI

Tuesday, 17 October, 2017  
14:30 PM - 16:00 PM

## TECHNICAL SESSION A

### **THEME1: METHODS OF ANALYSIS AND DESIGN OF EARTH, ROCKFILL AND CONCRETE DAMS INCLUDING EXPERIMENTAL, ANALYTICAL AND NUMERICAL INVESTIGATIONS**

ROOM: FEYZ CHAIRS: Prof. JINTING WANG - Prof. MOHAMMAD HASAN BAZIAR - Dr. MORTEZA SOHRABI GILANI

H0031	ASSESSMENT OF NEWMARK METHODS FOR THE PREDICTION OF DEVIATORIC DISPLACEMENT OF EARTH DAMS USING ENERGY APPROACH
	REZA KARIMI MOGHADAM, MOHAMMAD HASSAN BAZIAR
E0037	ON THE SLICES-BASED LIMIT EQUILIBRIUM METHOD FOR THE ACTIVE EARTH PRESSURE APPLIED BY SOILS WITH NONLINEAR STRENGTH BEHAVIOR
	ZHONGZHI FU, SHENGSHUI CHEN, GUOYING LI
E0011	SAFETY EVALUATION OF CONCRETE GRAVITY DAMS FOUNDED ON INHOMOGENEOUS ROCK MEDIA DUE TO STATIC LOADS
	HAMID TAGHAVI GANJI, MOHAMMAD ALEMBAGHERI
C006	DYNAMIC ANALYSIS OF DAM-RESERVOIR-INTAKE TOWER CONSIDERING SEDIMENTS ABSORPTION
	ALI MAHDIAN KHALILI, BAHRAM NAVAYI NEYA, LEILA KALANI SAROKOLAYI
E0046	AN INVESTIGATION OF THE EFFECTS OF EXPLOSIVE CHARGE IN DIFFERENT LEVELS ON THE DYNAMIC RESPONSE OF CONCRETE ARCH DAMS
	MIRALI MOHAMMADI, MOHAMMAD MANAFPOUR, HESANE GHANBARI
B007	THE EFFECT OF SATURATED LIME SOLUTION ON INCREASING THE STRENGTH OF SILTY SANDY SOILS
	FOROUGH HASSANVAND, MOHAMMAD HADI DAVOUDI

Wednesday, 18 October, 2017  
8:30 AM - 10:00 AM

## TECHNICAL SESSION A

### THEME1: METHODS OF ANALYSIS AND DESIGN OF EARTH, ROCKFILL AND CONCRETE DAMS INCLUDING EXPERIMENTAL, ANALYTICAL AND NUMERICAL INVESTIGATIONS

ROOM: FEYZ      CHAIRS: Prof. ANTON SCHLEISS - Dr. MOHAMMAD MANAFPOUR - Dr. MOHAMMAD ALEMBAGHERI

I005	A PROBABILISTIC APPROACH TO DEFINE THE RELIABILITY OF GATES AT DAMS AND WEIRS ADRIAN LINDERMUTH, BARBARA BRINKMEIER, MARKUS AUFLEGER
E0048	LABORATORY STUDY OF THE EFFECT OF RECYCLED FILLERS FROM COKING AND IRON CONCENTRATES FACTORIES ON THE ROLLER COMPACTED CONCRETE PROPERTIES IN DAMS (RCC DAMS) JABER MAHMOUDI, KOUROSH QADERI, MOHAMMAD ZOUNEMAT KERMANI, FAEZE YAZDI
E0014	EFFECTIVE PARAMETERS FOR CALCULATING THE DISCHARGE OF SPILLWAY WITH RADIAL GATES AT LARGE DAMS HOSSEIN KHALILI SHAYAN, JAVAD FARHOUDI, YOUNES AMINPOOR, AMIN SEYEDZADEH, REZA ROSHAN, ALIREZA VATANKHAH
E003	OPTIMUM CHARACTERISTIC COMPRESSIVE STRENGTH FOR CMDS (CASE STUDY: DASHT-E-PALANG DAM) AHMAD GHEZEL AYAGH, ABBAS MOHAMMADIAN
E0017	NUMERICAL INVESTIGATION OF THE FLOW CHARACTERISTICS IN THE VICINITY OF PRESSURE CONDUIT'S GATES MOHAMMAD MANAFPOUR, TOHID JAMALI ROVESHT
E0043	NUMERICAL STUDY OF THE PASSING FLOW OVER SPILLWAY WITH EMPHASIS ON THE POTENTIAL OF CAVITATION OCCURRENCE HAMZEH EBRAHIMNEZHADIAN, MIRALI MOHAMMADI, RAMIN ABDULLAH KOOKHI, AKO SEYEDI

Wednesday, 18 October, 2017  
10:30 AM - 12:00 PM

## TECHNICAL SESSION B

### THEME2: TIME - DEPENDENT PROPERTIES OF CONSTRUCTION MATERIALS FOR DAMS AND THEIR CONSTITUTIVE MODELING

ROOM: FEYZ CHAIRS: Prof. FENG JIN - Prof. ALIAKBAR RAMEZANIANPOUR - Dr. MOHAMMAD ESMAEILNIAOMRAN

I002	RESEARCH ON ROCKFILL CONCRETE DAM
	FENG JIN, HU ZHOU, XUEHUI AN
I006	A CASE STUDY ON THE DEFORMATION BEHAVIOUR OF ASPHALT CONCRETE CORE DAMS (ACRD) WITH DIFFERENT CORE INCLINATIONS
	PETER TSCHERNUTTER, ADRIAN KAINRATH
I003	DURABILITY ENHANCEMENT OF CONCRETE DAMS BY CONTROLLING AND MITIGATING AAR PROBLEM
	ALIAKBAR RAMEZANIANPOUR, AMIRMOHAMMAD RAMEZANIANPOUR
I001	ON SENSITIVITY ANALYSIS OF A NONLINEAR GRAVITY DAM MODEL
	M.A. HARIRI-ARDEBILI, S.M. SEYED-KOLBADI
H0034	NUMERICAL ANALYSIS OF GRANULAR SOIL-STRUCTURE INTERFACE BEHAVIOR AT LARGE SHEARING DISPLACEMENT: EVOLUTION AND CHARACTERIZATION
	BABAK EBRAHIMIAN, ALI NOORZAD
E0029	LONG-TERM BEHAVIOR OF KINEVARS EMBANKMENT DAM USING NUMERICAL MODEL AND COMPARE IT WITH THE INSTRUMENTATION RESULTS
	AHMAD GHEZELAYAGH, MANSOUR FADAEI, AMIN BOLOURI

Tuesday, 17 October, 2017  
16:30 PM - 18:00 PM

## TECHNICAL SESSION C

### THEME3: SEEPAGE UNDER SATURATED AND UNSATURATED CONDITIONS

ROOM: ATTAR CHAIRS: Prof. ERICH BAUER - Prof. SIHONG LIU - Prof. AHMADREZA MAHBOUBI ARDAKANI

G005	FIELD SEEPAGE TESTS ON DISCONTINUITY STRUCTURAL ROCKS IN A HYDROPOWER PROJECT SIHONG LIU, BIN ZHOU, LIPING WENG, MEIQI JIANG, HANWEN XIONG
A003	QUANTIFYING SEEPAGE FLOW VELOCITIES IN EMBANKMENT DAMS FROM OPTICAL FIBRE DISTRIBUTED TEMPERATURE MEASUREMENTS JEAN-ROBERT COURIVAUD, NICOLAS LORRAIN, FRANCOIS MARTINOT, REMI BEGUIN
F003	THE USE OF GEOMEMBRANES IN DAMS ALBERTO SCUERO, GABRIELLA VASCHETTI, MARCO BACCHELLI
E0040	EFFECT OF HYDRAULIC PROPERTIES OF FILL AND GEOCOMPOSITE DRAINAGE MATERIALS ON SEEPAGE RESPONSE IN REINFORCED EARTH WALLS AVIRUT CHINKULKIJNIWAT, SUKSUN HORPIBULSUK, DUC BUI VAN, SOMJAI YUBONCHIT, THANAKORN RAKKOB
G006	THE SEEPAGE BEHAVIOR OF A HIGH CONCRETE FACE ROCKFILL DAM ON ALLUVIUM DEPOSIT WEIJUN CEN, DENGJUN LI, ERICH BAUER
G007	NUMERICAL ANALYSIS OF ELASTIC SURFACE SETTLEMENT DUE TO SEEPAGE FORCE ABDOLLAH ROHANI HAJIAGHA, ABOLFAZL RIAHI NOURI

Wednesday, 18 October, 2017  
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TECHNICAL SESSION D

THEME4: INTERACTION OF DAM FOUNDATION AND STRUCTURE

ROOM: ATTAR      CHAIRS: Dr. MARTIN WIELAND - Prof. MOHSEN GHAEMIAN - Prof. MOHAMMAD TAGHI AHMADI

H006	MODELS OF EARTHQUAKE GROUND SHAKING USED IN SEISMIC DESIGN AND SAFETY CHECKS OF LARGE DAMS
	MARTIN WIELAND
C008	ASSESSMENT OF FOUNDATION MASS AND EARTHQUAKE INPUT MECHANISM EFFECT ON DAM-RESERVOIR-FOUNDATION SYSTEM RESPONSE
	MOHSEN GHAEMIAN, ALI NOORZAD, HAMID MOHAMMADNEZHAD
H007	STUDYING THE EFFECTS OF NON-UNIFORM EARTHQUAKE EXCITATIONS ON DYNAMIC RESPONSE OF CONCRETE ARCH DAMS
	FATEME ESMAILI SOUREH, ALIREZA MANAFPOUR, MOHAMMAD MANAFPOUR
H0013	HYDRODYNAMIC SUB-PRESSURE INCREMENTAL PATTERN IN DAM-RESERVOIR INTERACTION SYSTEM SUBJECTED TO FAR FIELD AND NEAR FIELD GROUND MOTIONS
	MOHAMMAD MANAFPOUR, ARMAN ROSHANRAVAN
H008	GLOBAL SENSITIVITY ANALYSIS OF CONCRETE GRAVITY DAMS SUBJECTED TO SEISMIC EXCITATION
	MOHAMMAD HOUSHMAND, MOHSEN GHAEMIAN, VAHAB TOUFIGH
H0011	PROBABILISTIC ANALYSIS OF CONCRETE GRAVITY DAMS OWING TO FOUNDATION INHOMOGENEITY
	HAMID TAGHAVI GANJI, MOHAMMAD ALEMBAGHERI, MOHAMMAD HOUSHMAND
H004	SEISMIC SAFETY ASPECTS OF GATED SPILLWAYS OF LARGE STORAGE DAMS
	MARTIN WIELAND, SANAZ AHLEHAGH

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## TECHNICAL SESSION E

### THEME5: SEISMIC ASPECTS AND EARTHQUAKE ANALYSIS

ROOM: ATTAR

CHAIRS: Prof. JIN-TING WANG - Prof. ZHONGZHI FU - Dr. MOSTAFA ZAMANIAN

H0021	SEISMIC RESPONSE ANALYSIS OF HIGH ARCH DAMS TO SPATIALLY-VARYING GROUND MOTIONS JIN-TING WANG, FENG JIN, CHU-HAN ZHANG
H0025	DYNAMIC ANALYSIS OF EMBANKMENT DAMS UNDER STRONG SEISMIC EXCITATION AND A CASE STUDY HASAN TOSUN, TURGUT VATAN TOSUN
H001	EARTHQUAKE SAFETY EVALUATION FOR DAMS IN UPPER ARAS BASIN, TURKEY HASAN TOSUN
H005	SPECTRUM RESPONSE ANALYSIS OF CONCRETE FACE ROCK FILL DAM, CASE STUDY BAKUN DAM BEHROUZ GORDAN, AZLAN ADNAN
H0024	SEISMIC VULNERABILITY ASSESSMENT OF A SET OF CONCRETE GRAVITY DAMS SAEID GHASEMI GAVABAR, MOHAMMAD ALEMBAGHERI, BEHRANG ESMI
H0016	THE STUDY OF SITE EFFECTS ON SEISMIC RESPONSE OF ADJACENT RECTANGULAR VALLEYS BEHROUZ GATMIRI, ZAHRA KHAKZAD

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## TECHNICAL SESSION E

### THEME5: SEISMIC ASPECTS AND EARTHQUAKE ANALYSIS

ROOM: ATTAR

CHAIRS: Prof. FENG JIN - Prof. HASAN TOSUN - Dr. BABAK EBRAHIMIAN

H0018	COMPARISON OF 2D AND 3D SEISMIC ANALYSIS OF CONCRETE FACE ROCKFILL DAMS IN NARROW CANYONS
	BABAK MAHMOODI, ALI ASGHAR MIRGHASEMI
H0032	NUMERICAL EARTHQUAKE RESPONSE ANALYSIS OF THE EARTH DAMS
	BABAK EBRAHIMIAN, ALI NOORZAD
H0033	NUMERICAL ANALYSIS OF SOIL LIQUEFACTION INDUCED FAILURE OF EARTH DAMS
	BABAK EBRAHIMIAN, ALI NOORZAD
E008	DESIGN EXPERIENCE ON SLOPE STABILITY FOR ROCKFILL DAMS, TURKEY
	HASAN TOSUN
H0026	FINITE ELEMENT ANALYSIS OF MULTI-TIERED REINFORCED SOIL WALLS OF GOTVAND DAM POWERHOUSE UNDER EARTHQUAKE LOADING
	AMIR MOHSEN SAFAEE, ALI NOORZAD, AHMAD REZA MAHBOUBI ARDAKANI
H0022	THREE-DIMENSIONAL EFFECTS ON THE DYNAMIC RESPONSE OF THE DARIYAN DAM
	DAVOOD SALEHI

Tuesday, 17 October, 2017  
16:30 PM - 18:00 PM

## TECHNICAL SESSION G

### THEME7: OPERATION, MAINTENANCE, REHABILITATION AND HEIGHTENING

ROOM: MOLANA

CHAIRS: Dr. MARTIN WIELAND - Prof. ALI NOORZAD - Mr. EISA BOZORGZADEH

F002	LESSONS LEARNT - RAISING AN EARTHFILL DAM : FROM THE INITIAL DESIGN TO THE DAM-RAISING WORKS - GANGUISE DAM (FRANCE)
	ERIC VUILLERMET
F0011	REHABILITATION OF THE SYLVENSTEIN DAM, GERMANY – SUCCESS PROOF BY MAJOR FLOOD 2013
	PETER BANZHAF
F001	CHAMBON DAM REINFORCEMENT WORKS
	OLIVIER CHULLIAT, ETIENNE GRIMAL, EMMANUEL ROBBE
F005	WATER-FILLED BLADDERS, AN INNOVATIVE BEARING INTERFACE FOR ARCH DAM BRACING
	ALEXANDRE LOCHU, THOMAS PINCHARD
F0014	CRITICAL SUCCESS FACTORS IN CONSTRUCTION OR REHABILITATION CONTRACTS REGARDING DAMS
	BETTINA GEISSELER
D001	TRANSPARENT DAM CONCEPT FOR EVERLASTING RESERVOIRS
	FRANCIS FRUCHART

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## TECHNICAL SESSION G

### THEME7: OPERATION, MAINTENANCE, REHABILITATION AND HEIGHTENING

ROOM: MOLANA

CHAIRS: Prof. LAURA CA LDEIRA - Dr. DONG-HOON SHIN - Dr. SAEED JAMALI

F0018	AGEING EVALUATION MODEL OF DAMS AND CASE STUDIES
	DONG-HOON SHIN
F0010	DESIGN AND OPERATION OF SUSTAINABLE RESERVOIRS, A NEW APPROACH
	ESMAEIL TOLOUIE
F0017	EROSION OF CHANNEL BEDS COVERED BY COHESIVE SEDIMENTS
	HESAM FOULADFAR, MAHMOUD SHAFAI BAJESTAN
F006	ROCKFILL DAMS OVERTOPPING RISK ANALYSIS
	ALI KOMAK PANAH, HAMIDREZA RAHMANI
F0020	INTRODUCING A NEW LONG-LEAD HYDROLOGIC FORECASTING SYSTEM FOR IMPROVING RESERVOIR OPERATION
	SHAHAB ARAGHINJEAD, SAEED JAMALI, MOHAMMAD HOSEINI MOUGHARI, FERESHTEH MODARESI
F007	STUDY OF THE SAROUGH DAM FUSEGATES
	KOMEIL SAMET, MOJTABA AHMADI, MOHAMMAD ASHRAFI, KHOSROW HOSEINI

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## TECHNICAL SESSION G

### THEME7: OPERATION, MAINTENANCE, REHABILITATION AND HEIGHTENING

ROOM: MOLANA CHAIRS: Prof. MARKUS AUFLEGER -Prof. SEYED JAMSHID MOUSAVI - Dr. MORTEZA SOHRABI GILANI

A0025	ASSESSMENT OF AN EMBANKMENT DAM BREAK WARNING SYSTEM BASED ON HISTORICAL DAM FAILURES DIANA LÓPEZ , MARKUS AUFLEGER
F0016	REAL TIME OPERATION MODEL FOR OPTIMUM OPERATION OF BUKAN RESERVOIR IN LAKE URMIA BASIN KAYHAN GAVAHI, SEYED JAMSHID MOUSAVI
F0015	ANALYTICAL SOLUTION FOR LEVEL POOL ROUTING EQUATION BASED ON VARIOUS INFLOW HYDROGRAPHS BANAFSHE NEMATOLLAHI SARVESTANI, MAJID NIAZKAR, NASSER TALEBBEYDOKHTI
A0026	PERFORMANCE AND SAFETY ASSESSMENT OF SEVEN STORAGE DAMS IN KHUZESTAN PROVINCE, IRAN REZA ESMAILI, MORTEZA RAYATI, SEYED MEHDI HOSSEINI TEHRANI, YAGHOUB ARAB
A0027	NUMERICAL STUDY ON THE EFFECT OF GROUT PROPERTIES ON THE RESULTS OF BOREHOLE EXTENSOMETERS IN EARTH DAMS AFSHIN GHOLINIA, MAJID NIKKHAH, REZA NADERI
D002	DESIGN AND PERFORMANCE OF DRAINAGE SYSTEMS FOR LONG TERM STABILITY WYNFRITH RIEMER, FEREIDOUN BAHRAMI SAMANI

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## TECHNICAL SESSION I

### THEME9: ENVIRONMENTAL ISSUES

ROOM: FFYZ HAIRS: Prof. LAURA CA LDEIRA - Dr. MOTAHAREH SAADATPOUR - Dr. MOHAMMAD SADEGH SADEGHIAN

B0019	DESTRUCTIVE PHENOMENON OF DUST STORM AND ITS MITIGATION MEASURES ON THE GLOBAL SCALE
	NASER TARKESHDOOZ
D005	CLIMATE CHANGE ADAPTATION IN MULTI-RESERVOIR SYSTEMS THROUGH REVISING OPERATION POLICIES
	BANAFSHEH ZAHRAIE, HAMED POORSEPAHY-SAMIAN, SAEED JAMALI, BAHAREH NOROOZI, MOHSEN NASSERI
B0021	ASSESSMENT OF HYDROLOGIC ALTERNATION OF FLOW DUE TO DAM CONSTRUCTION IN AN ARID BASIN (THE CASE OF THE GADAR RIVER IN URMIA BASIN)
	SOMAYEH SIMA, BEHDAD SAED
B0013	REVIEW OF RESERVOIR WATER QUALITY MONITORING AND MODELLING
	NASSER TALEBBEYDOKHTI, SHOKOUFEH POURSHAHABI, GHOLAMREZA RAKHSHANDEHROO, MOHAMMAD REZA NIKOO, MEHRAB AMIRI
B009	STRATEGIES FOR GREENHOUSE GASES MITIGATION IN HYDRO-ELECTRICAL WATER RESERVOIR
	SAEED KARBIN, HADI KARBIN, HOSSIEN ALI ALIKAHNI

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## TECHNICAL SESSION I

### THEME9: ENVIRONMENTAL ISSUES

ROOM: FFYZ CHAIRS: Dr. MOHAMMED SHOAIB SYED - Dr. SOMAYEH SIMA - Dr. SHAHAB ARAGHINEZHED

B0020	AEROBIOLOGY, BIOPHYSICAL STUDIES THROUGH INTEGRATION OF ZIGBEE COMMUNICATION PROTOCOLS IN FIXED WING AIR VEHICLE FOR DAM REGIONS
	MOHAMMED SHOAIB SYED, SHAIK ABDUL KHADER JILANI
D001	TRANSPARENT DAM CONCEPT FOR EVERLASTING RESERVOIRS
	FRANCIS FRUCHART
B0010	OPTIMIZING SELECTIVE WITHDRAWAL SYSTEM IN RESERVOIR TO MANAGE DOWNSTREAM WATER QUALITY AND HYDROPOWER ENERGY GENERATION
	MOTAHAREH SAADATPOUR, SHIMA JAVAHERI
B0014	SMOOTHED PARTICLE HYDRODYNAMICS FOR MORPHOLOGY CHANGES AND A NON-NEWTONIAN FLUID
	POOYAN NIKEGHBALI, POURYA OMIDVAR, PAYAM RASOOLI, S. MEHDI MOHAMMADIZADEH
B0015	FLOW PATTERN AND DELTA CHARACTERISTICS IN A DAM RESERVOIR
	KAZEM GOMAR, MASOUD GHODSIAN, SEYED ALI AYUOBZADEH
D003	IMPACT OF MINING WASTE EFFLUENTS ON THE SHEAR STRENGTH OF COMPACTED LATERITIC SOILS USED IN WASTE CONTAINMENT DIKES (DRC)
	GUSTAVE MUKOKO KALENDA, GABRIEL LILE AMISI, YANNICK KIYUKENO KITWANYOKA, ELIE MUSOYA KYULU, RAMIRO DANIEL VERASTEGUI FLORES, JEAN-FRANÇOIS THIMUS, KELLY GUERRIER

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POSTER SESSION

ROOM: LOBBY FEYZ & ATTAR

G002	ANALYZING THE EFFECT OF DEFECT IN THE UPSTREAM IMPERVIOUS BLANKET ON THE SEEPAGE BEHAVIOR OF EARTHFILL DAM
	HAMED FARSHBAF AGHAJANI, MAJID MAHDAVIRAD
A004	SYSTEM IDENTIFICATION OF CONCRETE ARCH DAM USING FREQUENCY DOMAIN AND TIME-FREQUENCY DOMAIN METHODS
	ARMAN ROSHANRAVAN, MOHAMMAD MANAFPOUR, HESANEH GHANBARI
A0023	THE PRINCIPLES OF DEEP ALLUVIAL DRILLING MANAGEMENT ON BOREHOLE
	AMIN MANSOURI, MALIHEH GHADIRI
E0013	BEHAVIOR ANALYSIS OF GHALEEH CHAY EARTH FILL DAM USING INSTRUMENTS DATA
	MOHAMMAD MANAFPOUR, MOJTABA GHAREMANNEZHAD
E0022	DESIGN OF NEURAL NETWORKS BY USING GENETIC ALGORITHM FOR THE PREDICTION OF IMMersed CBR INDEX
	MOHAMMED EL AMIN BOUROUIS, ABDELJALIL ZADJAOUI, ABDELKADER DJEDID, ABDERRAHMEN BENSENOUCI
E009	INVESTIGATION OF THE LEAKAGE AND MAXIMUM STRESS IN PLASTIC CONCRETE CUT-OFF WALL WITH 100 CENTIMETER WIDTH INSTEAD OF CLAY CORE IN STATIC STATE ON EMBANKMENT DAM'S RAZ & JARGALAN
	AHMAD SEDIGHIAN, ABBAS ALI GHEZEL SOOFLO
E0031	DETERMINATION OF OPTIMUM CROSS SECTION OF EARTH DAMS BY USING ARTIFICIAL INTELLIGENCE
	MOHAMMAD DAVOODI, MOHAMMAD KAZEM JAFARI, AMIN REZAEI
E0044	NUMERICAL INVESTIGATION OF FLOW OVER RECTANGULAR SIDE WEIR IN A CIRCULAR CHANNEL
	SANAZ SHOAIE, MOJTABA MEHRAEIN
H0010	PROBABILISTIC-BASED ANALYSIS OF CONCRETE GRAVITY DAMS UNDER SYNTHETIC GROUND MOTION EXCITATION
	YASAMAN AFKHAMI, MOHAMMAD ALEMBAGHERI

## POSTER SESSION

ROOM: LOBBY FEYZ & ATTAR

E0041	NUMERICAL SIMULATION OF SHARP CRESTED ARCED WEIR
	SAEID AZIZI, MOJTABA MEHRAEIN
E0035	STUDY OF HYDRAULIC CHARACTERISTICS OF LARGE DAM'S SPILLWAY (CASE STUDY: ZOLA DAM SPILLWAY)
	MOHAMMAD MANAFPOUR, SEVDA KAFSHDOOZ SALIMY
H0027	INVESTIGATION OF THE EFFECT OF SEISMIC LOADING ON DISPLACEMENTS OF MULTI-TIERED REINFORCED SOIL WALLS IN IRAN MAJOR HYDROPOWER PROJECTS
	AMIR MOHSEN SAFAEE, ALI NOORZAD, AHMAD REZA MAHBOUBI-ARDAKANI
E0018	THE MULTIPHASE CAPABILITY OF OPENFOAM CFD TOOLBOX IN SOLVING FLOW FIELD IN HYDRAULIC STRUCTURE
	MOHAMMAD MANAFPOUR, HAMZEH EBRAHIMNEZHADIAN
I007	THERMAL ANALYSIS OF ROLLER COMPACTED CONCRETE DAMS
	MOHAMMAD MOUSAVI, MAJID PASBANI KHIAMI, MORTAZA ALI GHORBANI
H0023	NONLINEAR DYNAMIC ANALYSIS OF CONCRETE GRAVITY ZAVIN DAM
	BEHZAD NAJMODDINI, ABBASALI GHEZELSOFFLOO
H003	SEISMIC AND GEOTECHNICAL ASPECTS OF THE LARGE EARTHFILL DAM IN A SEISMICALLY ACTIVE REGION
	DARIUSH BELASHI, SAEED NAYEB
H0028	DYNAMIC RESPONSE OF CONCRETE DAMS
	SHIVA KHOSRAVI, REZA KAMYAB MOGHADAS
H0030	SEISMIC PERFORMANCE EVALUATION OF SALMAN FARSI DAM WITH CONSIDERING THE INFLUENCE OF SEDIMENT
	SAHAR REZAEI KOUJANI, ZAHRA HEIRANY

Wednesday, 18 October, 2017  
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POSTER SESSION

ROOM: LOBBY FEYZ & ATTAR

B003	DEFINING A FRAMEWORK FOR INTEGRATING ENVIRONMENTAL AND SOCIAL ASPECTS IN DAM REHABILITATION
	ZAHRA SOBHANIYEH, AMIN SARANG
B0017	POSITIVE AND NEGATIVE EFFECTS OF DAMMING INDUSTRY EXPANSION
	MOHAMMAD ALI JABERI, GHASEM SHAHPARIFAR
B001	EVALUATION OF GROUNDWATER MANAGEMENT TECHNIQUES FOR THE CITY OF MASHHAD
	MAHDI SAFDARI SEH GONBAD, POORYA NAKHAEI, FARZIN KALANTARY
A006	INVESTIGATING THE LOCAL ARCHING PHENOMENON IN TOTAL PRESSURE CELLS LOCATED IN CLAY CORE PROTECTIVE FILTERS AND COMPARISON WITH NUMERICAL MODELING RESULTS (CASE STUDY: MAMLOU EARTH DAM)
	MOHAMMAD SALEHIAN ZOLBIN, MAZIAR MAHMOUDINIA
G001	INVESTIGATION ON THE PERFORMANCE OF BLANKET, CUTOFF WALL AND SYNTHETIC COVER FOR THE CONTROL OF SEEPAGE AND PIPING IN EARTH DAMS
	HOSSEIN KHALILI SHAYAN, MARYAM JAMAL, FARAZ RABEII GHOLAMI
D007	RISK ASSESSMENT OF EARTH DAM OVERTOPPING USING SYSTEM DYNAMICS AND MONTE CARLO SIMULATION (CASE STUDY: HAJILARCHAY DAM)
	ALI EBRAHIMZADEH, MAHDI ZARGHAMI, VAHID NOURANI

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