

Venue: Ballroom 2

11:00 - 11:30

11:30 - 12: 00

12:00 - 12:30

12:30 - 13:00

13:00 - 14:00

14:00-15:00

14:00-14:30

14:30-15:00

16:00 - 16:30

08:00 - 09:00

08:30 - 09:00

09:00 -10:45

10:45 -11:00

11:00 - 11:30

11:30 - 12:00

12:00 - 12:30

12:30 - 13:00

13:00 - 14:00

14:00 - 14:30

14:30 - 15: 00

15:00 - 15:30

15:30 - 16:00

16:00 - 17:00

17:00 - 17:20

	D REGISTRATION OPEN	
09:00 - 10:45		
	OPENING PLENARY	
	Chair: Dr Ntombi Nala (WRC Board Member)	
	Welcome: Dr Nozi Mjoli (WRC Board Chair)	
	Keynote address: Ibrahim Assane Mayaki (AUDA-NEPAD) tbc	
	Innovation address: Dhesigen Naidoo (WRC CEO) Ministerial address: Minister Lindiwe Sisulu (DHSWS) Venue: Ballroom 2&3	

08:00 - 09:00	REGISTRATION OPEN					
09:00 - 10:45						
	OPENING PLENARY Chair: Dr Ntombi Nala (WRC Bo Welcome: Dr Nozi Mjoli (WRC Bo Keynote address: Ibrahim Assar Innovation address: Dhesigen N Ministerial address: Minister Lin Venue: Ballroom 2&3	oard Chair) ne Mayaki (AUDA-NEPAD) tbc laidoo (WRC CEO)				
10:45 - 11:00	TEA/COFFEE BREAK					
TECHNICAL SES	SIONS:					
11:00 -13:00	Session 1: SOCIAL INNOVATION Session with Civil Society Chair: Saddof (IWMI DG)	Session 2: INNOVATION & NEXUS THINKING WEF Nexus Status, – concepts and discourse	Session 3: DESIGN THINKING Water Sensitive Design Chair:	Session 4: USAID WASHFIN AND IORA RCSTT Venue: Boardroom 1	Session 5: CHINA-AFRICA WATER SUMMIT: JOINING EFFORTS TO	Session 6: SUSTAINABLE MINE CLOSURE Chair: Water Board CEO, TBC

•		
08:00 - 09:00	REGISTRATION OPEN	
09:00 - 10:45		
	OPENING PLENARY	
	Chair: Dr Ntombi Nala (WRC Board Member)	
	Welcome: Dr Nozi Mjoli (WRC Board Chair)	
	Keynote address: Ibrahim Assane Mayaki (AUDA-NEPAD) tbc	

Wednesday, 11th So	September 2019	
08:00 - 09:00	REGISTRATION OPEN	
09:00 - 10:45		
	OPENING PLENARY	
	Chair: Dr Ntombi Nala (WRC Board Member)	

08:00 - 09:00	REGISTRATION OPEN
09:00 - 10:45	
	OPENING PLENARY
	Chair: Dr Ntombi Nala (WRC Board Member)
	Welcome: Dr Nozi Mjoli (WRC Board Chair)

08:00 - 09:00	REGISTRATION OPEN		
09:00 - 10:45			
	OPENING PLENARY		
	Chair: Dr Ntombi Nala (WRC Board Member)		
	Molecuse, De Nozi Mieli (MDC Beast Chais)		

WRC SYMPOSIUM DAY Wednesday, 11th September 2019	SANDTON CONVENT

WRC SYMPOSIUM DAY Wednesday, 11th September 2019	SANDTON CONVENTION CENTI

WRC SYMPOSIUM DAY Wednesday, 11th September 2019	1	♥ SANDTON	CONVENTION	CENTR
08:00 - 09:00 REGISTRATION	OPEN			

08:00 - 09:00	REGISTRATION OPEN
09:00 - 10:45	
	OPENING PLENARY
	Chair: Dr Ntombi Nala (WRC Board Member)

Wednesday, 11th S		SANDION	CONVENTION	CENTI
08:00 - 09:00	REGISTRATION OPEN			
09:00 - 10:45				

WRC SYMPO Wednesday, 11th Se	SIUM DAY ptember 2019	1)	()	SANDTON	CONVENTION	CENTR
08:00 - 09:00	REGISTRATION O	PEN				

INNOVATION IN EVERY DROP

SYMPOSIUM

Spatial Planning and

Spluma and WSD

Prioritizations

12:20 - 12:40

12:40 - 13:00

Session 9:

DATA

Chair:

WATER AND BIG

and Information

Venue: Ballroom 4

Organiser: Shafick

Adams & Shanna

1 Presentation and

and Opportunities

for Big Data

Management

and Information

discussion on Future

panel of experts'

Nienaber

Management

New Tools for Data

Centralizing the green

infrastructure in Water

Sensitive Design: A

landscape approach

Presenter: Prof Karen

Discussion and closing

Sjostrand

Esler

remarks

Presenter: Karin

Session title:

innovation to

keep up with

densification

Chair: Christo

Rautenbach

Coastal engineering

coastal population

Sanitation Science

Transfer Coordination

and Technology

Centre hosted by

Commission

Mamohloding

Tlhagale, WRC

Wave and storm surge forecasting in support of coastal infrastructure protection **Presenter:** Christo Rautenbach

Coastal engineering and the Flood Early Warning System (FEWS) of eThekwini municipality Presenter: JP Calitz, eThekwini Municipality

Design considerations and modelling approaches focused on marine outfall performance assessment and monitoring Presenter: Roy van Ballegooyen, WSP: Transport and Infrastructure, Africa

Open Discussion

Session 10:

EMERGING

IN WATER

RESEARCH

Chair:

DIRECTIONS

GOVERNANCE

Venue: Boardroom 1

Organiser: John Dini

Ethical Perspective:

Horticultural Area

Presenter: Dr Leanne

Seeliger, University

of Stellenbosch

Aligning land and

water allocation

reform processes

development in

South Africa

Presenter: Traci

Reddy, Pegasys

Knowledge review

research on water

Presenter: Dr Inga

International Water

Management Institute

and supporting

agenda setting

for future WRC investments in

governance

Jacobs-Mata,

Institute

for more equitable

Water Issues in

A pilot study

in the Philippi

Presenter:

the Water Research

WSD

Research methods for the WEF nexus

WEF nexus: Moving away from theory to

practice

Session 8

SOUTH AFRICA.

Chair: Evah Phago

Venue: Ballroom 3

Organiser: Thabo

Mthombeni

environment

WATER INNOVATION AND

INTELLECTUAL PROPERTY IN

Water Intellectual Property Audit

findings in South African Higher

Panel with TTO experts on water

IP and discussion on NSI Water

Presenter: Mr Thabo Mthombeni, WRC

Education institutions

LUNCH AND EXHIBITION

Developments towards

a new Sanitation

circular economy

Venue: Ballroom 2

Organiser: Charmaine

SASTEP – A paradigm

opportunities that

need scaling up?

Presenter: Dr Valerie

Nutrient recovery from

valuable products such

urine - Production of

as fertilizer and bio-

Presenter: Dr. Dyllon

Randall, University of

Fertilizer from urine

and social franchising

A business case

Presenter: Mr Orion

TEA / COFFEE

REGISTRATION OPEN

Facilitator: TBC Venue: Ballroom 2

TEA / COFFEE

Session 12:

LED SESSION

Chair/Organiser:

Mandla/Hlengiwe

Venue: Ballroom 2

[LAUNCH: WI Alliance]

WATER INSTITUTIONS

Chair: Cheryl Hicks (Toilet Board Coalition)

Briefing Session: for authors and chairmen of the day

KEYNOTE ADDRESS: Doulaye Kone (Bill & Melinda Gates Foundation) PANEL DISCUSSION: Circular Economy [Led by Toilet Board Coalition]

Session 13:

SUBSTANCES AND

OTHER ISSUES OF

Chair/Organiser:

Venue: Ballroom 3

Chemicals of emerging

concern: identification

Presenter: Prof J

University of

Technology

reuse

Okonkwo, **Tshwane**

Addressing emerging

substances of concern

in water recycling and

Presenter: Prof Leslie

Petrik, University of

Western Cape

Microplastics &

resistance in the

West University

Urban wastewater

evaluating human

Dr Edward Archer, Stellenbosch University

Session 19:

Chair:

Organiser:

Brilliant Petja

Venue: Ballroom 3

The projected future

implication for water

Francois Engelbrecht,

Integrated land use

with a view of future

climate and land use

Presenter: Prof Nebo Jovanovic, CSIR

Using land use changes

to mitigate impacts

of future droughts on

water yields in South

Babatunde Abiodun,

Presenter: Prof

Hydrological

modelling of climate

for development of

adaptation strategies

change impacts

in Luvuvhu River

Catchment

Presenter: Rachel Makungo,

UNIVEN

CLOSING PLENARY

HACKAHTON PRIZE GIVING

TEA / COFFEE BREAK

Venue: Ballroom

2 & 3

WRC SYMPOSIUM DAY

Friday, 13th September 2019

08:15 - 09:00

09:00 -10:30

10:30 -11:00

11:00 -13:00

11:00-11:30

11:30-12:00

12:00 - 13:00

13:00 -14:00

Chair: Thami Hlongwa (Umgeni Water CEO) **Address:** David Mahlobo (Deputy Minister)

SUMMARY OF SYMPOSIUM: Highlights video

TEA / COFFEE/ REGISTRATION

Chair: Limakatso Moorosi (Bloem Water CEO) **KEYNOTE:** Ambassador Mxolisi Nkosi (DIRCO) TBC

CLOSING REMARKS: Dhesigen Naidoo (WRC CEO)

In partnership with the Africa Institute of South Africa (AISA)

PRESENTATION: Cheryl Hendricks (Executive Director AISA)

DAY 3 AFRICA SEMINAR:

TEA / COFFEE BREAK

AfriAlliance Session 1:

4th AfriAlliance Roadshow -

Chair: Tiyani Chauke

Venue: Boardroom 2

11:00 - 11:05

11:05 - 11:10

11:10 - 11:20

11:20 - 11:50

11:50 - 11:55

speed dating

11:55 - 12:25

12:25 - 12:55

12:55 - 13:00

Training session

Panel discussion

Summary and closure

LUNCH| EXHIBITION

RESEARCH COMMISSION

Innovation showcasing

Technology and innovation

demonstration, and networking break

Feedback from demonstration and

Innovations in Water Reuse and

Potential of New Water Resources

Welcome and high-level introduction

Introduction of water reuse and

potential new resources of water

INTERNATIONAL SESSIONS

Venue: Boardroom 1

changes

Africa

UCT

and water use in Water Management Areas,

climate and its

Presenter: Prof

security

Wits

CLIMATE FUTURES

exposure to emerging

substances of concern

epidemiology:

Presenter:

LUNCH AND EXHIBITION

Session 18:

INNOVATION &

reuse

NATURAL RESOURCES

resource recovery and

Organiser: John Zvimba

System Wide Modelling

Sustainable Resource

Presenter: David Ikumi,

Sludge Application Rate

Advisor for Sustainable

Municipal Wastewater

Agricultural Use of

Presenter: Eyob

Tesfamariam, UP

Presenter: Lakesh

Maharaj, Umgeni

Presenter: Lalitha

Moodley, eThekwini

Sludge Application Rate

Advisor for Sustainable

Municipal Wastewater

Agricultural Use of

Presenter: Eyob

Tesfamariam, UP

Sludge

15:15 - 15:40

15:50 - 16:00

DISCUSSION

14:50 - 15:15

Chair: Chair: Water

Venue: Ballroom 2

14:00 - 14:25

- Understanding

Recovery

14:25 - 14:50

UCT

Sludge

TBC

Board CEO, TBC

Sustainable Wastewater

environment

pharmaceuticals: as

drivers for antimicrobial

Presenter: TBC, North

and quantification tools

Nonhlanhla K

CONCERN IN WATER

EMERGING

DAY 2 PLENARY: BUILDING A CIRCULAR ECONOMY IN WATER AND SANITATION

Session 14:

Chair: CEO, Amatola

Venue: Ballroom 4

Organiser: Sudhir

Development of

the Brown Drop

Framework: How Shit

Assist with Municipal

Flow Diagrams Can

Sanitation Planning

and Management

Presenter: Thabisa Manxodidi, **Emanti** Management Piloting an

School Sanitation

for Cleaner Rural

School Ablution

Facilities

Neethling

Management Model

Presenter: Jeanette

Can We Convert Our

Value-Add Products?

Toilet Waste into

- Developing a Re-

Presenter: Reneiloe

Engineered Toilet

The Engineering

Programme in

Presenter:

Field Testing (EFT)

eThekwini: Lessons

Ruth Cottingham

Session 20:

Initiatives

Organiser:

Virginia Molose

14:00 - 14:15

14:15 - 14:30

Operationalizing

Services (MUS)

14:30 - 14:45

Shah, IWMI

14:45 - 15:00

Presenter: Dr.

15:00 - 15:10

15:10 - 15:15

Panel discussion:

Operationalizing

Water services

Community Driven

Presenter: Dr. Tushaar

Shah, IWMI

Presenter: Dr.

Lemessa Mekonta,

IRC Ethiopia (TBC)

Panel discussion:

Operationalizing

Water services

Beneficiaries

Perspectives

Modiba

and Financiers

1st Panel: Practice (Broad Framing questions: Challenges of implementing self-supply/MUS. Government role in enabling effective self-supply/MUS?) Presenter: Itumeleng

2nd Panel: Practice

questions: What is

required to enable

policy instruments

enough? How is the international community doing it?

MUS? Are the current

The focus must be on

proposals for enabling institutional and financing policy)

Presenter: Itumeleng

Modiba

INTERNATIONAL DAY

Danish Session 2

Journey to Impact

Venue: Boardroom 3

Brief introduction by

The South African Story

Wrap up by the moderator

Chair: TBC

11:00 - 11:05

11:05 - 11:20

11:20 - 11:35

11:35 - 11:55

11:55 - 12:00

Discussion

The Danish Story

moderator

International Session on

Water Sensitive Design – the

TBC Session 3:

Chair: Cheryl Hicks

Venue: Boardroom 4

Africa Workshop

11:00 - 11:30

11:30 - 12:00

12:00 - 13:00

13:00 - 13:30

Presenters:

Coalition

Sanitation

Jay Bhagwan, WRC

from key stakeholders

Table breakout discussion

Report back and action plan

Cheryl Hicks, Toilet Board

National Business Initiative

Ministry of Drinking Water and

scene

The Sanitation Economy for

Opening keynotes – setting the

Panel discussion – perspectives

Swedish Session 4:

Challenges and Possibilities

Water Governance:

Chair: Mamohloding

Venue: Boardroom 5

Presenter: Oskar Nielsen,

Decision support methods

Presenter: Karin Sjöstrand,

to evaluate and compare

mitigation measures.

Research Institutes of

Dynamic water balance

assessment and decision

Presenter: Andreas Lindhe

support in Botswana.

/ Lars Rosén, Chalmers

Financing constraints

- Innovative financing

funding gap. **Presenter:** Anton Earle,

Stockholm International Water Institute (SIWI)

mechanisms to overcome

University of Technology

Sweden (RISE)

modelling for risk

Embassy of Sweden

Water constraints -

Tlhagale

Introduction

Session 5:

Chair: Manjusha Sunil

Venue: Boardroom 1

Sector

A Test Bed Network and Technology

Validation Frameworks for the Water

A consolidated network of test bed

Presenter: Dr Marlene van der Merwe-

Development of technology validation frameworks for the water sector Presenter: Mr. Chris Swartz, Chris Swartz Water Utilisation Engineers

Discussion

Botha, Water Group Holdings

VOTE OF THANKS & CLOSE: Dr Mandla Msibi (WRC Group Executive Innovation and Impact)

(Broad Framing

Approach: From Practitioners,

Community Driven

Lemessa Mekonta.

IRC Ethiopia (TBC

Project

Koppen

TBC

TBC

Q&A

Community Driven

Multiple Use Water

Presenter: Dr. B. Van

Presenter: Dr. Tushaar

Welcome, opening

and setting the scene

Venue: Ballroom 4

Chair:

SOCIAL INNOVATION

Community Water

Seodigeng

Appropriate

SANITI

Water

Pillay

PANEL MEMBERS: Kartik Chandran (Columbia University) Jay Bhagwan (WRC), CSE INDIA, Mbulelo Tshangana DG(DHSWS), Bill & Melinda Gates Foundation (Doulaye Kone)

Session 15:

SUPPLY

Adams

DIVERSIFYING WATER

Chair/Organiser: Shafick

Venue: Boardroom 1

Setting the Scene

Presenter: Shafick Adams,

Groundwater use and

Presenter: Fanus Fourie,

Stormwater harvesting for

Presenter: John Okedi, UCT

Perspectives on

Dawid Bosman, TCTA

Desalinisation

Session 21:

innovation

IPRDP – Demonstrating

Chair: Jay Bhagwan

Venue: Boardroom 1

14:00 - 14:20

from DST IPRDP

Tshepang Mosiea

and municipalities

Marco van Dijk

14:40 - 15:00

rural households

15:00 - 15:20

14:20 - 14:40

Experiences and Lessons

Putting micro-hydro to

benefit rural communities

Presenter: Thato Sebea/

Good water quality through

point of use interventions in

Presenter: Lingham Pillay

Pour Flush sanitation and

Presenter: Dave Still/

Jeanette Neethling

Demonstrating new

15:20 - 15:40

EFT in Durban

15:40 - 16:00

Remarks

Pour flush

Point of use

Social innovation in

franchising.

Presenter: Ruth

its uptake in household and

sanitation solutions through

Conningham/Teddy Gounden

Discussion and Closing

Presenter: Nonhlanla Mhize/

Presenter:

DHSWS

cities

management in South Africa

presentation

Session 16:

WATER SECURITY

Venue: Boardroom 2

TOWARDS NEW THINKING TO

The delineation and the importance

of strategic water sources areas for

Presenter: Dr David le Maitre, CSIR

Using remote sensing to monitor

Development and assessment of

Presenter: Dr David Clark, UKZN

Water accounts for South Africa

Presenter: Dr Jackie Crafford, Prime

accounting methodology for South

an integrated water resources

Africa (Project K5/2512)

(TT 770/18)

Lakes

Africa

Session 22:

Sylvester Mpandeli

Venue: Boardroom 2

Chair:

Venue: TBC

2278/1/18).

Women UKZN

Entrepreneurship in Water

Utilisation and Agriculture

Panellists: Stellenbosch Group;

Appropriate entrepreneurial

Smallholder irrigation

Report No: 2179/1/16).

Smallholder irrigation

entrepreneurial development

districts in Limpopo Province (WRC Report No: 2179/1/16).

Appropriate entrepreneurial

Report No: 2178/1/16).

development paths in the transition

from homestead food gardening

to smallholder crop farming in the

Eastern Cape of South Africa (WRC

pathways and livelihoods in two

entrepreneurial development

pathways and livelihoods in two districts in Limpopo Province (WRC

development paths for homestead

food gardening and smallholder

irrigation crop farming in KwaZulu

- Natal Province (WRC Report No:

eutrophication in large water bodies

Presenter: Dr Mark Matthews, Cyano

South Africa (TT 754/18)

Chair: Wandile Nomquphu

Session 17:

ASSESSMENT

Jaswa

Chair: CEO, IUCMA

Venue: boardroom 3

Organiser: Dr Eunice Ubomba

Revision of the 1996 South

Guidelines - Development

of Risk - Based Approach

for Recreational Water Use

Presenter: Ms Bettina Genthe,

A Risk Based Assessment of

and their Species in Selected

Water Systems (surface water

Potentially Toxic Elements

and sediment) in Limpopo

Province (K5/2515)

Johannesburg

Presenter: Dr Abayneh

Ambushe, University of

The Development of a

Presenter: Dr Bridget Shaddock, Golder Associates

Development of a

Presenter:

Ltd

Preliminary Approach to

Associated Risk (K5/2754)

Research Laboratory (Pty)

Methodology to Determine the Risk of Microplastics in

Fresh Water Resources in

Ms Ntombekhaya Mgaba,

Rhodes University

Session 23:

RESOURCES AND

WATER RESEARCH,

INNOVATION AND

Shanna Nienaber

14:00 - 14:20

Study

Venue: boardroom 3

Organiser: Dr Chantal R Kotze

Opening remarks on the RDI

Presenter: Mr Imraan Patel/Dr

Finance and Investment

Henry Roman, DST

Are our Water RDI

investments hot or cold:

Study findings presentation

Presenter: Mr Rajiv Paladh,

Panel Discussion focused

projects and how to bridge

challenges associated with

Facilitator: Shanna Nienaber,

Water Sensitive Urban Design

Community of Practice

reflection session

Panelists (TBC):

DST

DTI

DBSA

Godfrey Mashamba,

Chris Baloyi, Bosch Capital

these initiatives.

WRC

on funding for innovative

14:20 - 15:00

Bosch Capital

and Q&A

IMPACTChair:

Organiser:

CAPABILITIES TO DRIVE

Institute for Water Research,

South Africa (K5/2919)

Sediment Site Evaluation and

African Water Quality

(K5/2435)

CSIR

WATER QUALITY & RISK

WRC SYMPOSIUM DAY Thursday, 12th September 2019

Herman, Liquid Gold

Naidoo, WRC

14:20 - 14:35

bricks

Cape Town

14:35 - 15:00

opportunities

 Barriers to the business/academia

partnership

shift in translating

innovation to the

Session 7:

INNOVATIVE

SANITATION

Chair:

Twala

14:00 - 14:20

marketplace

What are the

Applications for the WEF nexus

China

Keynote speaker: Prof Jiuhui Qu UN Habitat: Global Water Crisis and SDG based solutions Keynote speaker: UN Habitat (TBC) Mission with solving problems for the research institutes: Practices of **RCEES**

Presenter: Prof.

water crisis by

on Science and

Experiences of

collaboration

Technology:

The integral

Presenter:

(TBC)

solution of China

water resources

External Speaker

IORA RCSTT Water and Presenter: Gang

Min Yang

Fight the

Pit lakes as sustainable options for mine closure in South Africa Presenter: Andrew Johnstone,

Mine water reuse - Irrigation using poor quality mine water

Web-based Mine Water Atlas

Presenter: Trevor Coleman, **Golder Associates**

LIFT-LINK WORKSHOP

Water Innovation

Venue: boardroom 3

14:00 - 14:25

14:25 - 14:45

14:45 - 15:00

Discussion

WRF

Lift Resources to Support

Organiser: Manjusha Sunil

Water Innovation in LIFT

Presenter: Dr Aaron Fisher,

Introduction to LIFT Link

Presenter: Dr Aaron Fisher,

Demonstration

Session 11:

CHINA-AFRICA

WATER

SUMMIT

JOINING

EFFORTS TO

FIGHT GLOBAL

WATER CRISIS [FULL-DAY]

Boardroom 2

Organiser:

Tlhagale

Mamohloding

The current

perspective

of Chinese

Wastewater

treatment

Wang

Chinese solution for

African

Talk 1

Presenter:

African

Talk 2

Presenter:

African

Talk 3

Presenter:

African

African Contributors' Talk 5 Presenter: Invited African Expert (TBC)

Contributors'

Invited African

Expert (TBC)

Contributors'

Invited African

Expert (TBC)

Contributors'

Invited African

Expert (TBC)

Contributors' Talk 4 Presenter: Invited African Expert (TBC)

Presenter: XU

drinking water supply Presenter: Feng Xiao

state and

future

Presenter: John Annandale, UP

11 TO 13 SEPTEMBER RE