



The 1st NWU Biennial Research & Innovation Conference

**Positioning NWU for Research & Innovation Excellence,
Visibility and Impact: Maximizing Success,
Strengths and Opportunities**

*For Researchers,
By Researchers,
With Researchers*

27 – 29 November 2018
North-West University,
Potchefstroom Campus Auditorium

Capacity building
NETWORKING
communication



partnerships
STRATEGY

collaborations
exchange
KNOWLEDGE

Programme

For Researchers, By Researchers, With Researchers

NWU SANLAM AUDITORIUM | 27– 29 NOVEMBER 2018

Faculty exhibitions throughout the conference – each Faculty to have own stall to showcase their work (e.g, FEMS to showcase their entrepreneurship activities; Humanities to showcase their creative arts, engineering, health sciences and natural sciences to showcase their innovations such as Lekwena Radar, HySA, community engagement activities, etc.)

Further, researchers (including postgrad students and postdocs) can exhibit posters which were presented at international conferences during the past year in the Alumni Hall.

DAY 1: TUESDAY, 27 NOVEMBER 2018

7:30 - 9:00

Arrival, Registration & Refreshments

Day 1: 9:30 – 11:10

Setting the Scene: Perspectives on Research & Innovation in Higher Education

featuring His Majesty Kgosi Leruo Molotlegi, King of the Royal Bafokeng Nation & NWU Chancellor, Dr Phethiwe Matutu, NRF Group Executive and Mr Chief Mabizela, DHET

Session 1

Chair: Prof Refilwe Phaswana-Mafuya

NWU Deputy Vice Chancellor Research and Innovation

This session focuses on the Research & Innovation status quo in South Africa. It sets the context for the entire conference which will guide the rest of the subsequent sessions as well as institutional plans

5 min

Settling in & Announcements

Mr Johann Coetzee, Ms Yolande Bullock & OHS Representative

5 min

NWU Anthem

Music Item

5 min

NWU Corporate DVD

Corporate Relations & Marketing

15 min	A word of welcome and Introduction of His Majesty Kgosi Leruo Molotlegi, NWU Chancellor	Prof Dan Kgwadi: NWU Vice Chancellor and Principal
30 min	Opening Address	His Majesty Kgosi Leruo Molotlegi, NWU Chancellor
20 min	The “It all starts here” Team	NWU Team
3 min	Introduction of Dr Phethiwe Matutu	Prof Refilwe Phaswana-Mafuya
20 min	NRF Perspective: Research & Innovation in Higher Education	Dr Phethiwe Matutu, NRF Group Executive Strategy Planning and Partnerships
3 min	Introduction of Mr Chief Mabizela	Prof Refilwe Phaswana-Mafuya
20 min	DHET Perspective: Research & Innovation in Higher Education	Mr Chief Mabizela, Chief Director, DHET
11:10 – 11:30	TEA/COFFEE BREAK	

Day 1: 11:30-13:15

Session 2

Faculty Research & Innovation 2019 Targets & Strategies towards advancing Research Excellence

featuring Prof Ahmed Bawa, CEO of Universities South Africa

Chairs: Prof Lloyd Conley & Prof Stephen De La Harpe

This session focuses on current Research & Innovation Faculty Plans – faculties will also report on the Research & Innovation Indicators

10 min	Introductory Remarks on 2019 Research & Innovation (R&I) Targets & Strategies	Prof Refilwe Phaswana-Mafuya
15 min	Faculty of Humanities: Video, 2019 R&I Targets & Strategies	Prof Pamela Maseko & Prof Susan Coetzee Van Rooy
15 min	Faculty of Economic and Management Sciences: Video, 2019 R&I Targets & Strategies	Prof Sonia Swanepoel & Prof Babs Surujlal
15 min	Faculty of Theology: Video, 2019 R&I Targets & Strategies	Prof Daryl Balia & Prof Ferdi Kruger
15 min	Faculty of Health Sciences: Video, 2019 R&I Targets & Strategies	Prof Awie Kotze & Prof Jeanetta Du Plessis
3 min	Introduction of Prof Ahmed Bawa	Designated person

30 min	USAF Perspective: Research & Innovation in Higher Education	Prof Ahmed Bawa USAF: CEO
USAF: CEO	LUNCH & EXHIBITIONS	
Day 1: 14:00 – 16:30 Session 3 Faculty Research & Innovation 2019 Targets & Strategies towards advancing Research Excellence Chairs: Prof Sonia Swanepoel & Prof Awie Kotze		
3 min	Research & Innovation contributions of Preclinical Drug Development Platform	Video
15 min	Faculty of Natural and Agricultural Sciences: Video, 2019 R&I Targets & Strategies	Prof Eno Ebenso & Prof David Modise
15 min	Faculty of Education Sciences: Video, 2019 R&I Targets & Strategies	Prof Lloyd Conly & Prof Washington Dudu
15 min	Faculty of Law: Video, 2019 R&I Targets & Strategies	Prof Stephen De La Harpe & Prof Anel Du Plessis
15 min	Faculty of Engineering: Video, 2019 R&I Targets & Strategies	Prof Liezl Van Dyk & Prof Frans Waanders
15 min	Research Contributions of HySA as an NWU/ DST/CSIR co-hosted entity	Prof Dmitri Bessarabov
15 min	Reflections, Q&A	Session Chairs & Rapporteurs Dr Shernice Soobramoney, Ms Angeli Rex, Mr Peter Monyeli & Ms Teresa Smit
40 min	Viewing Exhibitions	All Delegates

DAY 2: WEDNESDAY, 28 NOVEMBER 2018

7:30 – 8:30

Arrival, Registration & Refreshments

Day 2: 08:30 -11:00

Session 1

Building Research & Innovation Capacities and Capabilities

Capabilities featuring Prof Stephanie Burton, Vice President Research, University of Pretoria, Ms Ruth Roberts-Chen, Director, DHET & 3 NRF Directors: Dr Nana Boaduo, Dr Mbulelo Ncango & Ms Anthipi Pouris

Chair: Prof Jeanetta du Plessis & Prof David Modise

*This session focuses on developing, enhancing and expanding research capacities and capabilities – retaining skill and developing next generation of researchers as well as creation of an **enabling, conducive, sustainable and supportive environment to advance Research and Innovation excellence***

5 min	Settling in & Announcements	Ms Zama Kose & OHS Representative
2 min	Research & Innovation contributions of MRC Extramural unit for Hypertension and Cardiovascular Disease	Video
3 min	Introduction of Prof Stephanie Burton	Designated person
20 min	Postgraduate training landscape in South Africa – Successes, Challenges, and Transformation Imperatives	Prof Stephanie Burton, Vice President Vice President Research, University of Pretoria
3 min	Introduction of Ms Ruth Roberts-Chen	Designated person
20 min	International Scholarships for postgraduate students	Ms Ruth Roberts-Chen, DHET Director – International Scholarships
5 min	Introduction of NRF Panel	Designated person
60 min	NRF Panel - Grants Management, SARChi Chairs & CoE, and Capacity Development	Ms Anthipi Pouris- Director, Grants Management and Systems Administration (GMSA) Dr Nana Boaduo - Director: SARChI, Research Chairs and CoE Dr Mbulelo Ncango – Director: Human Infrastructure and Capacity Development

10 min	Postgraduate journey: an exploratory study on the experiences and narratives of postgraduate students and supervisors at a South African university	Dr Laura Weiss, postdoctoral research fellow from Optentia
10 min	Strategy for strengthening postgraduate studies	Prof Babs Surujlal & Prof Efe Useh
15 min	Reflections, Q&A	Session Chairs & Rapporteurs Ms Boipelo Sebesho, Funanani Lavhelani, Ms Relebohile Baholo & Ms Marli Nel

11:00 – 11:20 TEA/COFFEE BREAK

Day 2: 11:20-13:20

Session 2

Decolonization, Digitalization & Indigenization in the 21st Century featuring

Prof Jonathan Jansen, President of Academy of Science of South Africa and Professor at Stellenbosch University

Chair: Prof Pamela Maseko & Prof Susan Coetzee Van Rooy

3 min	Introduction of Prof Jonathan Jansen	Designated person
35 min	The Social Scientist and Decolonization	Prof Jonathan Jansen, President of ASSAF, Professor at Stellenbosch University & Former Vice Chancellor of University of the Free State
10 min	Research & Innovation contributions of South African Centre for Digital Language Resources as a national research structure of the DST	Prof Attie De Lange
10 min	Research & Innovation contributions of Indigenous Knowledge Systems Centre	Prof Simeon Materechera
40 min	Research & Innovation contributions of NWU Research Chairs	Prof Sanette Marx, Prof Anel Du Plessis, Prof Wilma Viviers and other Research Chairs
20 min	Reflections, Q&A	Session Chairs & Rapporteurs Mr Andre Hattingh, Ms Marli Nel, Ms Boipelo Sibesho, Teresa Smit

13:00 – 14:00 LUNCH & EXHIBITIONS

Day 2: 14:20 -16:20

Session 3

Research Intelligence, Ranking & Rating & Book Publishing

featuring Mr Dale Towert, Senior Manager, Research Intelligence, University of Johannesburg and Prof Andries van Aarde, Chief Editor of Scholarly Books, Oasis Publishing

Chair: Prof Pamela Maseko & Prof Susan Coetzee Van Rooy

12 min	Research & Innovation contributions of Centre for Human Metabolomics	Video
3 min	Introduction of Mr Dale Towert	Designated person
30 min	Success Story: Bibliometrics at University of Johannesburg	Mr DaleTowert, Research Intelligence, UJ
20 min	NWU ORCID's and Scopus profiles: facts, figures, updates and plans	Mr Siviwe Bangani
3 min	Introduction of Prof Andries van Aarde	Designated person
30 min	Strengthening Book Publishing	Prof Andries van Aarde & Prof Izak Oosthuizen
20 min	Reflections, Q&A	Session Chairs & Rapporteurs Ms MPE Meintjes, Ms Teresa Smit, Mr Johann Du Plessis, Ms Funanani Lavhelani

Day 3: THURSDAY, 29 NOVEMBER 2018

7:30 - 8:30 Arrival, Registration & Refreshments

Day 3: 8h30-10h20

Session 1

Innovation and Development

featuring Mr Imraan Patel, Deputy Director General, DST

Session Chairs: Prof Liezl Van Dyk & Dr Janine Chantson

This session focuses on NWU innovations and entrepreneurship initiatives

5 min	Settling in & Announcements	Mr Nkosinathi Machine & OHS Representative
3 min	China/NWU Innovation Competition Video	Video
3 min	Introduction of Mr Imraam Patel	Designated person
20 min	Socio-economic Development and Innovation	Imraan Patel, DDG DST
3 min	Introduction of Prof Chen Jiaji	Designated person
10 min	Chinese Investment Opportunities on Technologies	Prof Chen Jiaji
8 min	Pattern Recognition Technology	Dr Pieter Van Vuuren
8 min	NWU Solar Car	Prof Albert Helberg
8 min	NWU Jonker Sails Plane	Dr Attie Jonker
8 min	NWU Robotic Hand	Prof Leenta Grobler
8 min	NWU REDgrow & Spark Ignition	Mr FR Bezuidenhout
8 min	NWU Additive Manufacturing (3D Printing)	Mr Hannes Malan
8 min	Microwave Washing Machine	Mr Dennis King
10 min	Reflections, Q&A	Session Chairs & Rapporteurs Mr Johann Coetzee, Ms Gretha Duvenage, Ms Boipelo Sebesho, Ms Ketlareng Polori, Ms Relebohile Baholo
10:20 – 10:40	TEA/COFFEE BREAK	

Day 3: 10:40 - 13:00

Session 2

Visibility, Engagement, Impact, Reputation and Perception

featuring Prof Olubukola Babalola, Vice President for Org. for Women in Science in the Dev. World (OWSD, Africa) and Ms Dorothy Ngila, Chair of OWSD, South Africa

Session Chair: Prof Daryl Balia & Prof Anel Du Plessis

30 min	Research & Innovation contributions of INWU BRICS Initiatives	Mr Theo Bekker (Moderator), BRICSED – Dr Ewelina Niemczyk, Dr Deon Vos, Dr Louw de Beer BRICSESS - Prof Hans de Ridder BRICS Coal – Prof Quinton Campbell BRICS Energy - Jan Van Ravenswaay
30 min	Increasing visibility of eResearch by sharing success stories: A panel discussion	Mr Boeta Pretorius (Moderator), Mr Shakes Scott and Researchers
30 min	Research & Innovation contributions of NWU Enterprising Women Programme and Enactus	Moderator— Prof Herman Van Der Merwe Mr Johann Landsberg Three EWP Graduates Chairperson of Enactus
20 min	Inauguration of Organization for Women in Science in Developing countries, NWU branch	Prof Olubukola Babalola - Vice President: OWSD, Africa & Ms Dorothy Ngila, Chair: OWSD South Africa
30 min	Engaged Research & Innovation	Ms Beatrix Bowman (Moderator) – Common Good First Digital Platform Innovation; Prof Lesley Wood – Comber, Faculty of Education; Dr Nicole Claassens – Faculty of Health Sciences Community Women’s Choir

20 min	Reflections, Q&A	Session Chairs & Rapporteurs Dr Shernice Soobramoney, Ms Angeli Rex & Ms Teresa Smit
13:00 – 14:00	LUNCH & EXHIBITIONS	
Day 3: 14:00 - 16:30		
Session 3		
Research & Innovation Funding and Acknowledgements		
Session Chair: Prof Eno Ebenso & Prof Babs Surujlal		
5 min	Research & Innovation contributions of Centre for Advanced Manufacturing	Video
20 min	2019 University Capacity Development Programme Opportunities: Updates and Plans	Prof Susan Visser & Ms MPE Meintjes
15 min	Highlights about NWU Donors, Sponsors and Friends	Mr Hannes Malan & Ms Cathy Castagno
10 min	Faculty Award Raffle	Mr Ben Zaaiman
10 min	NWU Technologies Raffle	Mr Johann Coetzee
10 min	Best Exhibition	Dr Shernice Soobramoney
15 min	Leopard's Lair Winner	Prof Liezl Van Dyk
15 min	Reflections, Q&A	Session Chairs & Rapporteurs Mr Johann Coetzee, Ms Gretha Duvenage, Ms Boipelo Sebesho, Ms Ketlareng Polori, Ms Relebohile Baholo
20 min	Completion of Conference Evaluation Form	Delegates
30 min	Closing Ceremony	All

The 1st NWU Biennial Research & Innovation Conference

27th November 2018

Session 1



His Majesty Kgosi Leruo Molotlegi,
NWU Chancellor



Dr. Phethiwe Matutu,
Group Executive Strategy
Planning and Partnerships,
National Research
Foundation



Mr. Chief Mabizela,
Chief Director, Department
of Higher Education and
Training

Session 2



Prof. Ahmed Bawa,
CEO, Universities South Africa

28th November 2018

Session 1



Prof. Stephanie Burton,
Vice President Research,
University of Pretoria



Ms. Ruth Roberts-Chen,
Director (International
Scholarships), Department
of Higher Education and
Training



Dr. Nana Boaduo
Director: SARCHI,
Research Chairs and
CoE, National Research
Foundation



Dr. Mbulelo Ncango
Director: Human
Infrastructure and Capacity
Development, National
Research Foundation



Ms. Anthipi Pouris
Director, Grants
Management and Systems
Administration (GMSA),
National Research
Foundation

Session 2



Prof. Jonathan Jansen,
President of Academy of
Science of South Africa,
Professor at Stellenbosch
University

Session 3



Mr. Dale Towert
Senior Manager: Research
Intelligence, University of
Johannesburg



Prof. Andries van Aarde,
Chief Editor of Scholarly
Books, OASIS Publishing

29th November 2018

Session 1



Mr. Imraan Patel,
Deputy Director General,
Department of Science and
Technology



Prof. Chen Jiayi,
Deputy General Manager,
Gold Yard International
Exchange Service

Session 2



Prof. Olubukola Babalola,
Vice President,
Organization for Women in
Science in the Developing
World, Africa



Ms. Dorothy Ngila,
Chair, Organization for
Women in Science in the
Developing World, South
Africa

Research and Innovation Conference Exhibitions: 27-29 November 2018

Stall Number	Name
1.	Auther
2.	Sadilar
3.	NRF Rating
4.	Research Support
5.	NSTF
6.	Extruder
7.	NWU (ORCID & Scopus profiles)
8.	Law
9.	OWSD
10.	Mosaic
11.	Solar Car
12.	Communication Studies Poster
13.	Communication Studies Poster
14.	Melissa Speight Vaughn Poster
15.	Phasrec
16.	Pharmacen
17.	Numiq
18.	Heart
19.	PCDDP
20.	Instrumentmakery
21.	TTIS
22.	Eye Tracking Exhibit
23.	UNESCO chair on Multimodal Learning and Open Educational Resources
24.	Little African Scientists
25.	CEN
26.	EDuHRight – Unit
27.	SDL Focus Area

Stall Number	Name
28.	EDuLead-Niche Area
29.	COMBER-Niche Area
30.	IT Academic & Office Solutions
31.	BRICS
32.	Metabolomics
33.	Green Coal
34.	Open
35.	Centre for Space Research
36.	Additive Manufacturing
37.	CTrans
38.	UPSET
39.	Atmospheric Science
40.	Atmospheric Science
41.	UESM
42.	EBW
43.	HYSA
44.	OHRRI

OFF-CAMPUS POTCHEFSTROOM EMERGENCY NUMBERS

Emergency service	Contact number
North-West Ambulance	•018 462 1231 (from cell phone) •10177 (from a landline)
ER24 Private Ambulance	•084 124
IRM Private Ambulance	•018 468 5561
Potchefstroom Medi Clinic	•018 293 0244
Police	•10111 (from a landline) •018 299 7476 (from a cell phone)
Tlokwe Fire and Rescue Services	•(018) 293 1111/2
Disaster Management Office	•018 299 5377

NWU POTCHEFSTROOM CAMPUS EMERGENCY NUMBERS

Emergency service	Contact number
Protection service: crime and security related (Building F17)	•018 299 2211 •018 299 2215 •018 299 1110
NWU emergency services: fire, medical and rescue emergencies (Building F17)	•018 299 2211 •018 299 2215 •018 299 1110
InGryp Psychological crisis line: trauma & emotional related emergencies (Building E14)	•018 299 1777
Health Care Centre (Building E16)	•018 299 4345