

UNIVERSITY OF PRETORIA

CURRICULUM VITAE

1. BIOGRAPHICAL SKETCH

1.1 GENERAL INFORMATION							
Surname	Everts	First names	Marilize				
Citizenship	South African	Title	Dr	Female	x	Male	
Place of birth	Morocco	Date of birth	05/09/1990				
Department	Mechanical and Aeronautical Engineering	Position	Senior lecturer				
Direct Telephone	+27 12 420 6891	Direct Telefax					
E-mail	marilize.everts@up.ac.za						
Date of appointment	01/05/2020	Permanent full-time	x	Temporary full-time			

1.2 ACADEMIC QUALIFICATIONS OBTAINED				
Degree/ Diploma	Field of study	Higher education institution	Year	Distinctions
BEng	Mechanical	University of Pretoria	2012	Cum Laude (38 distinctions)
BEng(Hons)	Mechanical	University of Pretoria	2013	Cum Laude (all distinctions)
MEng	Mechanical	University of Pretoria	2014	Cum Laude
PhD	Mechanical	University of Pretoria	2018	n/a

1.3 WORK EXPERIENCE TO DATE		
Name of employer	Capacity and/or type of work	Period (mm/yy - mm/yy)
University of Pretoria	Postdoctoral Fellow	03/2018 – 04/2020
University of Pretoria	Senior Lecturer	05/2020 – present

2. TEACHING ACTIVITIES

2.1 Courses presented		
Course	Level (e.g. second year, Masters)	Self-developed (Yes/No)
Thermoflow, MTV410 (ad hoc in support of Prof JP Meyer), 2018-2020. Presented lectures, compiled lecture material and assisted with grading	BEng, fourth year	No
Advanced Heat and Mass Transfer, MHM420 (ad hoc in support of Prof JP Meyer), 2014. Presented a few lectures and teaching	BEng, fourth year	No

assistant for grading		
Research Project, MSC412/422 Co-supervised with Prof JP Meyer fourth year research project students, 2019-2020	BEng, fourth year	No

3. POSTGRADUATE SUPERVISION

3.1 Supervision or co-supervision of students who have completed degrees				
Name of student	Degree ¹ /Title of dissertation/ thesis and date completed	Supervisor	Co-supervisor	Duration of studies (years)
SM Abolarin	PhD, Heat transfer and pressure drop characteristics in the transitional flow regime with twisted tape inserts, 2019	Prof JP Meyer	Dr M Everts	5*
Al Bashir	PhD, Single-phase forced and mixed convection in the laminar and transitional flow, 2020	Prof JP Meyer	Dr M Everts	6*

* Involved only since 2017

3.2 Current post-graduate students				
Name of student	Degree ² enrolled for and date of registration	Project title	Supervisor	Co-supervisor
P Robbertse	MEng research, 2019	The influence of surface roughness on heat transfer in the transitional flow regime	Prof JP Meyer	Dr M Everts
B Spitholt	MEng research, 2019	The influence of surface roughness on pressure drop in the transitional flow regime	Prof JP Meyer	Dr M Everts
L Coertze	MEng research, 2019	Bubble formation and behavior of subcooled nucleate boiling	Prof JP Meyer	Dr M Everts
F Mahomed	MEng research, 2020	The influence of surface roughness on pressure drop in the transitional flow regime	Prof JP Meyer	Dr M Everts
RG Munzara	MEng research, 2020	Single-phase laminar heat transfer and pressure drop characteristics in horizontal tubes with a constant surface temperature	Prof JP Meyer	Dr M Everts

3.3 Supervision or co-supervision of post-doctoral fellows and internship students				
Name	Degree enrolled for and date of registration	Title	Supervisor	Co-supervisor
A Creismas (INSA-Lyon)	MSc Internship, 2018	Outlet effects of forced and mixed convection laminar flow	Dr M Everts	Prof JP Meyer
S Bhattacharyya (MCKV Institute of	Post-doctoral fellow, 2018	Laminar flow in smooth tubes at low Reynolds numbers	Prof JP Meyer	Dr M Everts

¹ Indicate whether Honours, Masters research, Masters coursework with dissertation or Doctorate

² Indicate whether Honours, Masters research, Masters coursework with dissertation or Doctorate

Engineering)				
UM Siddique	Post-doctoral fellow, 2020	Thermal entrance length of single-phase turbulent flow	Prof JP Meyer	Dr M Everts

4. STANDING AS A RESEARCHER

- The journal articles are published in the top journals in the field of heat transfer, based on impact factor. To date, Articles 1-4 are cited 3 to 4 times (taking into consideration a period of two years (2018-2019) more than the average article. Article 8 was only published on 28 April 2019, therefore it is already cited approximately 4 times more than the average article (taking into consideration a period of less than 6 months). Furthermore, based on the number of citations of the articles published in the journal that year, Article 8 is in the top 1% of 155 articles published in 2019, Article 2 in the top 2%, Articles 2 & 3 in the top 3% and Article 4 in the top 5%. The performance of Articles 1-4 are based on 1 704 articles published in 2018.
- The PhD research has proven to have a global significance and impact as some of the findings have already been published in the latest heat transfer textbook of "Heat and Mass Transfer: Fundamentals and Applications" in the 6th edition of Çengel and Ghajar of 2019. This textbook is being used by undergraduate and postgraduate students around the world, including here at the University of Pretoria.

5. RESEARCH OUTPUTS

5.1 Articles in refereed journals

1. Meyer, JP and Everts, M; Single-phase mixed convection of developing and fully developed flow in smooth horizontal tubes in the laminar and transitional flow regimes, *International Journal of Heat and Mass Transfer*, Vol. 117, pp. 1251-1273, 2018. (Impact factor: 3.9)
2. Everts, M and Meyer, JP; Heat transfer of developing and fully developed flow in smooth horizontal tubes in the transitional flow regime, *International Journal of Heat and Mass Transfer*, Vol. 117, pp. 1331-1351, 2018. (Impact factor: 3.9)
3. Everts, M and Meyer, JP; Relationship between pressure drop and heat transfer of developing and fully developed flow in the laminar, transitional, quasi-turbulent and turbulent flow regimes, *International Journal of Heat and Mass Transfer*, Vol. 117, pp. 1231-1250, 2018. (Impact factor: 3.9)
4. Everts, M and Meyer, JP; Flow regime maps for smooth horizontal tubes at a constant heat flux, *International Journal of Heat and Mass Transfer*, Vol. 117, pp. 1274-1290, 2018. (Impact factor: 3.9)
5. Meyer, JP, Everts, M, Hall, ATC., Mulock-Houwer, FA, Joubert, M, Pallent, LMJ, Vause, ES; Inlet tube spacing and protrusion effects on multiple circular tubes in the laminar, transitional and turbulent flow regimes, *International Journal of Heat and Mass Transfer*, Vol. 118, pp.257-274, 2018. (Impact factor: 3.9)
6. Abolarin, SM, Everts, M and Meyer, JP; The influence of peripheral u-cut twisted tapes and ring inserts on the heat transfer and pressure drop characteristics in the transitional flow regime, *International Journal of Heat and Mass Transfer*, Vol. 132, pp.970-984, 2019. (Impact factor: 3.9)
7. Abolarin, SM, Meyer, JP and Everts, M; Heat transfer and pressure drop characteristics of alternating clockwise and counter clockwise twisted tape inserts in the transitional flow regime, *International Journal of Heat and Mass Transfer*, Vol. 133, pp.203-217, 2019. (Impact factor: 3.9)
8. Meyer, JP, Everts, M, Coetzee, N, Grote, K and Steyn, M; Heat transfer characteristics of quasi-turbulent and turbulent flow in smooth circular tubes, *International Communications in Heat and Mass Transfer*, Vol. 105, pp.84-106, 2019. (Impact factor: 4.1)
9. Meyer, JP, Bashir, AI and Everts, M; Single-phase mixed convective heat transfer and pressure drop in the laminar and transitional flow regimes in smooth inclined tubes heated at a constant heat flux, *Experimental Thermal and Fluid*

Sciences, Manuscript number: ETFS_2019_410, Vol. 109, 109890, 2019. (Impact factor: 3.5).

10. Bashir, AI, Everts, M, Bennacer, R and Meyer, JP; Single-phase forced convection heat transfer and pressure drop in the laminar and transitional flow regimes, *Experimental Thermal and Fluid Sciences*, Vol. 109, 109891, 2019. (Impact factor: 3.5)
11. Bashir, AI, Everts, M and Meyer, JP; Influence of inlet contraction ratios on the heat transfer and pressure drop characteristics of single-phase flow in smooth circular tubes in the transitional flow regime, *Experimental Thermal and Fluid Sciences*, Manuscript number: ETFS_2019_412, Vol. 109, 109892, 2019. (Impact factor: 3.5)
12. Everts, M and Meyer, JP; Laminar hydrodynamic and thermal entrance lengths for simultaneously hydrodynamically and thermally developing forced and mixed convective flows in horizontal tubes, *Experimental Thermal and Fluid Sciences*, Manuscript number: ETF_110153, 2020. (Impact factor: 3.5)

5.2 Articles submitted for refereed journals

1. Bhattacharyya, S, Chamoli, S, Ewim, DRE, Everts, M and Meyer, JP; Experimental investigation on thermal performance and second law analysis of a helical corrugated solar air-heater tube with perforated circular disc inserts, *Applied Thermal Engineering*, Manuscript number: ATE_2019_6647, Submitted 1 October 2019.
2. Everts, M, Bhattacharyya, S, Bashir, AI and Meyer, JP; Heat transfer characteristics of assisting and opposing laminar flow through a vertical circular tube at low Reynolds numbers, *Applied Thermal Engineering*, Manuscript number: ATE_2020_2187, Submitted 8 April 2020

5.3 Books and/or chapters in books

1. Meyer, JP and Everts, M; A review of the recent developments in laminar, transitional, quasi-turbulent and turbulent forced and mixed convective flow through horizontal tubes, Edited by Sparrow EM, Abraham JP and Gorman JM, *Advances in Heat Transfer*, ISSN 0065-2717, <https://doi.org/10.016/bs.aiht.2019.07.001>.
2. Everts, M and Meyer JP; Test sections for heat transfer and pressure drop measurements: construction, calibration, and validation, Edited by Meyer, JP and De Paepe, M, *Heat Transfer Series for CRC Press/Taylor & Francis*, Accepted on 30 September 2019.

5.4 Published full-length conference papers/keynote addresses

1. Everts, M, Ayres, SR, Mulock Houwer, FA, Vanderwaghen, CP, Kotze, NM and Meyer, JP; The influence of surface roughness on transitional flow in a parabolic trough receiver tube, *Proceedings of the 2nd Southern African Solar Energy Conference (SASEC 2014)*, Paper 4, Port Elizabeth, 27-29 January 2014.
2. Everts, M, Ebrahim, R, Kruger, JP, Miles, E, Sharifpur, M and Meyer, JP; Turbulent flow across a rotating cylinder with surface roughness, *Proceedings of the 10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT)*, Orlando, pp. 1606-1614, 14-16 July 2014.
3. Everts, M, Ayres, SR, Mulock Houwer, FA, Vanderwaghen, CP, Kotze, NM and Meyer, JP; The influence of surface roughness on heat transfer in the transitional flow regime, *Proceedings of the 15th International Heat Transfer Conference (IHTC-15)*, pp. 1626-1637, Kyoto, 10-15 August 2014.
4. Everts, M and Meyer, JP; Heat transfer characteristics of developing flow in the transitional flow regime of a solar receiver tube, *Proceedings of the 3rd Southern African Solar Energy Conference (SASEC 2015)*, pp. 224-229, Skukuza, Kruger National Park, 11-13 May 2015.
5. Everts, M and Meyer, JP; Heat transfer of developing flow in the transitional flow regime, *Proceedings of the 1st Thermal and Fluid Engineering Summer Conference (TFESC)*, pp. 1051-1063, New York City, 9-12 August 2015.
6. Everts, M and Meyer, JP; The effect of secondary flow on developing flow in the transitional flow regime, *Proceedings of the 1st Pacific Rim Thermal Engineering Conference (PRTEC)*, Paper PRTEC-14446, Hawaii's Big Island, 13-17 March 2016.
7. Everts, M and Meyer, JP; Comparison of the heat transfer characteristics of developing and fully developed flow in smooth tubes in the transitional flow regime, *Proceedings of the 12th International Conference on Heat Transfer, Fluid*

Mechanics and Thermodynamics (HEFAT), pp. 495-504, Costa del Sol, 11-13 July 2016.

8. Everts, M and Meyer, JP; Heat transfer characteristics in the laminar and transitional flow regimes for tubes with mixed convection, Proceedings of the 9th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics (ExHFT), Paper OC103, Iguazu Falls, 12-15 June 2017.
9. Meyer, JP and Everts, M (**keynote**); Heat transfer characteristics in the transitional flow regime, Proceedings of the 9th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics (ExHFT), Paper KN07, Iguazu Falls, 12-15 June 2017.
10. Everts, M and Meyer, JP; Influence of free convection on the heat transfer characteristics of developing and fully developed flow in the transitional flow regime, Proceedings of the 13th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), pp. 652-661, Portoroz, 17-19 July 2017.
11. Everts, M and Meyer, JP; Flow regime maps for fully developed flow in horizontal solar receiver tubes, Proceedings of the 5th Southern African Solar Energy Conference (SASEC 2018), Durban, 25-27 June 2018.
12. Everts, M and Meyer, JP; Forced convection thermal entrance length for simultaneously hydrodynamically and thermally developing laminar flow at a constant heat flux, Proceedings of the 16th International Heat Transfer Conference (IHTC-16), pp. 3069-3075, Beijing, 10-15 August 2018.
13. Everts, M and Meyer, JP; Transitional flow regime nomenclature for smooth horizontal tubes heated at a constant heat flux, Proceedings of the 16th International Heat Transfer Conference (IHTC-16), pp. 3327-3334, Beijing, 10-15 August 2018.
14. Everts, M and Meyer, JP; Relationship between pressure drop and heat transfer in smooth horizontal tubes, Proceedings of the 16th International Heat Transfer Conference (IHTC-16), pp. 2883-2890, Beijing, 10-15 August 2018.
15. Meyer, JP and Everts, M; Effect of inlet tube spacing on friction factors in multiple circular tubes in the transitional flow regime, Proceedings of the 16th International Heat Transfer Conference (IHTC-16), pp. 3541-3548, Beijing, 10-15 August 2018.
16. Everts, M and Meyer, JP; Heat transfer coefficients of quasi-turbulent and turbulent flow in solar receiver tubes, SOLARPACES 2018: International conference on concentrating solar power and chemical energy systems, Casablanca, 2-5 October 2018, AIP Conference Proceedings, Vol. 2126, Paper 120006, 26 July 2019.
17. Everts, M and Meyer, JP; Flow regime maps for developing flow in smooth horizontal tubes, Proceedings of the 29th International Symposium on Transport Phenomena (ISTP29), Paper ISTP29-036, Honolulu, 30 October – 2 November 2018.
18. Abolarin, SM, Everts, M and Meyer, JP; Pressure drop characteristics of transitional flow through a smooth tube with peripheral u-cut twisted tape inserts, Proceedings of the 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), pp. 1271-1276, Wicklow, 22-24 July 2019.
19. Bashir AI, Everts, M, Bhattacharyya, S and Meyer, JP; Effect of inclination buoyancy on the fully developed friction factors in the laminar and transitional flow regimes of smooth tubes, Proceedings of the 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), pp. 470-475, Wicklow, 22-24 July 2019.
20. Bhattacharyya, S, Banerjee, A, Everts, M, Dey, K and Meyer, JP; Thermohydraulic characteristics of transitional flow in a circular tube with inlet disturbances, Proceedings of the 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), pp. 1483-1488, Wicklow, 22-24 July 2019.
21. Bashir AI, Everts, M and Meyer, JP; Experimental investigation of transitional flow forced convection heat transfer through a smooth vertical tube with a square-edged inlet, Proceedings of the 16th UK Heat Transfer Conference (UKHTC2019), Paper 22, Nottingham, 8-10 September 2019.
22. Bhattacharyya, S, Everts, M, Bashir AI and Meyer, JP; Experimental investigation of the heat transfer characteristics of laminar flow in a vertical circular channel at low Reynolds numbers, Proceedings of the 16th UK Heat Transfer Conference (UKHTC2019), Paper 60, Nottingham, 8-10 September 2019.
23. Everts, M, Bashir AI and Meyer, JP; Influence of free convection on fully developed transitional flow, 22nd Congress in

5.5 Contributions at conferences or special lectures (no proceedings)

1. Meyer, JP and Everts, M (**keynote**); A review of laminar and transitional heat transfer in circular tubes, 29th International Symposium on Transport Phenomena (ISTP29), Honolulu, 30 October – 2 November 2018.
2. Meyer, JP and Everts, M (**keynote**); A new perspective on single-phase flow in CSP systems, Royal Society-DFID Africa Capacity-Building Initiative workshop and annual meeting, University of Lagos, Nigeria, 10-12 April 2019.
3. Meyer, JP, Everts, M and Bashir Al (**keynote**); A new perspective on internal forced and mixed convection heat transfer, 16th UK Heat Transfer Conference, University of Nottingham, 8-10 September 2019.
4. Meyer, JP, Everts, M and Bashir Al (**keynote**); A new perspective on forced and mixed convection heat transfer in the laminar and transitional flow regimes, 22nd Congress in Thermal Science and Technology, Kocaeli, 11-14 September 2019.
5. Everts, M and Meyer, JP; The influence of laminar flow on the onset of flow boiling in a horizontal tube, Progress 100 Symposium and the 2nd ThermaSMART Annual Workshop, Kyushu, 2-4 December 2019.

5.6 Referee duties

1. Experimental Thermal and Fluid Sciences: April 2017, January 2019, November 2019
2. International Journal of Heat and Mass Transfer: June 2019

5.7 Journal duties

1. Administrative support to Editor and general communication with reviewers to generate special issues in Heat Transfer Engineering and to assist with review process in Journal of Porous Media, 2014-2016.

6. OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

6.1 Participation in conferences, workshops and short courses - specify type of contribution

Provide full details of participation in national and international conferences etc

6.1.1 National

1. Everts, M. & Meyer, J.P.; Heat transfer characteristics of developing and fully developed flow in the transitional flow regime of a parabolic trough receiver tube, Renewable and Sustainable Energy Post-Graduate Symposium (REPS), Alice, 4-6 September 2016.
(Oral presentation)
2. Radio interview on RSG (100-104) as part of women's month celebration and the South African Women in Science Awards (WISA) to encourage young women to pursue careers in Science, Technology, Engineering, Mathematics and Innovation (STEMI) on 9 August 2018.

6.1.2 International

1. RS-DFID Workshop at Imperial College London, 28-30 June 2018
2. L'Oreal For Women in Science Leadership Workshop, Kenya, 2-5 December 2018
3. RS-DFID Workshop at University of Mauritius, 22-23 January 2019
4. RS-DFID Workshop at University of Lagos, 10-12 April 2019
5. RS-DFID Workshop at Imperial College London, 18-20 July 2019
6. Session chair at the 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), Wicklow, 22-24 July 2019
7. Session chair at the 22nd Congress in Thermal Science and Technology, Kocaeli, 11-14 September 2019
8. 2nd ThermaSMART Annual Workshop, Kyushu, 2-4 December 2019

6.2 Teamwork and collaboration with others:

1. Royal Society-DFID Africa Capacity Building Initiative between University of Pretoria, Imperial College, University of Mauritius, and the University of Lagos, "Harnessing unsteady phase-change heat exchange in high-performance concentrated solar power systems", 2016-2020.
2. Smart thermal management of high-power microprocessors using phase-change (THERMASMART), European Commission, Horizon 2020 Research and Innovation Framework Programme, Consortium of 18 universities (including Edinburgh, Nottingham, Dublin, Kyushu, Maryland, Stanford, Tianjin, etc.) and 3 industry partners (ElveSys Microfluidic Innovation Center, Flow Capture AS, Cherry Biotech), 2017 – 2021.

6.3 Visits to local and overseas universities or research institutes as guest professor or researcher

1. Imperial College London, June/July 2018, July 2019
2. University of Edinburgh, July 2018, July 2019
3. Tianjin University of Commerce, August 2018
4. University of Mauritius, January 2019
5. University of Lagos, April 2019
6. Koceali University, September 2019
7. Kyushu University, December 2019

7. MANAGEMENT AND ADMINISTRATIVE DUTIES

List your involvement in departmental activities (e.g. administrative functions), faculty (e.g. Faculty Committees) or other university activities.

Administration for the University of Pretoria of project THERMASMART (Smart thermal management of high-power microprocessors using phase-change) which includes 18 universities (such as Edinburgh, Nottingham, Dublin, Kyushu, Maryland, Stanford, Tianjin, etc.) and 3 industry partners (ElveSys Microfluidic Innovation Center, Flow Capture AS, Cherry Biotech). This is a four-year project with a budget of R25million that started in 2017 and will end in 2021.

8. AWARDS AND SCIENTIFIC/SCHOLARLY RECOGNITION

8.1 Research awards and prizes

1. Winner of the Eskom Chairman's University Award (Open Category) for the best final year engineering student in the country in 2012. This included all 21 universities and approximately 5 000 students.
2. Outstanding paper award for the best paper in the session on "Solar Thermal (Heat Transfer)" presented to Marilize Everts and Josua P Meyer; Heat transfer characteristics of developing flow in the transitional flow regime of a solar receiver tube, Proceedings of the 3rd Southern African Solar Energy Conference (SASEC2015), Skukuza, Kruger National Park, pp. 224 – 229, 11 – 13 May 2015.
3. TATA Africa Doctoral Scholarship for Women in Science, Engineering and Technology awarded by the Department of Science and Technology in recognition of her outstanding academic and research ability (2015).
4. S2A3 Medal for Original Research at Masters level awarded by the Southern Africa Association for the Advancement of Science (S2A3) for most outstanding research student in a scientific subject graduating at Masters level at the University of Pretoria.
5. Outstanding paper award for the best paper in the session on "Convective Heat Transfer 1" presented to Marilize Everts and Josua P Meyer; Comparison of the heat transfer characteristics of developing and fully developed flow in smooth tubes in the transitional flow regime, Proceedings of the 12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2016), Costa del Sol, 11 – 13 July 2016.
6. Platinum Award for Doctoral Oral Presentation: Solar Energy, awarded by the Department of Science and Technology

(DST) and the National Research Foundation (NRF) at the Renewable and Sustainable Energy Post-Graduate Symposium for the best oral presentation at doctoral level in the Solar Energy field.

7. Outstanding paper award for the best paper in the session on "Heat Exchanger 1" presented to Marilize Everts and Josua P Meyer; Influence of free convection on the heat transfer characteristics of developing and fully developed flow in the transitional flow regime, Proceedings of the 13th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2017), Slovenia, 17 – 19 July 2017.
8. TATA Africa Scholarship for Women in Science, Engineering and Technology awarded by the Department of Science and Technology in recognition of her outstanding academic and research ability (2017).
9. One of the ten (out of 90) papers selected for an oral presentation at the Young Researchers Meeting at Tsinghua University as part of the 16th International Heat Transfer Conference (IHTC-16), Beijing, 10-15 August 2018.
10. Runner-up for the 'Most Interesting Presentation' at the SAIMEchE Student Conference, Johannesburg, 23 November 2018.
11. L'Oréal-UNESCO For Women in Science Sub-Saharan Africa Postdoctoral Award to recognize and reward talented young female scientists in the field of Life Sciences (such as biology, biochemistry, biophysics, genetics, physiology, neurosciences, biotechnologies, ecology and ethology) as well as Physical Sciences (such as physics, chemistry, petroleum engineering, mathematics, engineering sciences, information sciences, and earth and universe sciences). A total of 488 nominations were received and this was one of only two postdoctoral fellowships that were awarded.
12. Outstanding paper award for the best paper in the session on "Heat Transfer Exchangers 1" presented to Marilize Everts, Sogo Abolarin and Josua P Meyer; Pressure drop characteristics of transitional flow through a smooth tube with peripheral u-cut twisted tape inserts, Proceedings of the 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), Wicklow, 22-24 July 2019.
13. Outstanding paper award for the best paper in the session on "Convection Heat Transfer 1" presented to Marilize Everts, Abubakar Idris Bashir, Suvanjan Bhattacharyya and Josua P Meyer; Effect of inclination buoyancy on the fully developed friction factors in the laminar and transitional flow regimes of smooth tubes, Proceedings of the 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), Wicklow, 22-24 July 2019.
14. Best student paper at the 16th UK Heat Transfer Conference (one of only five awards out of a total of 126 papers): Bashir AI, Everts M and Meyer JP; Experimental investigation of transitional flow forced convection heat transfer through a smooth vertical tube with a square-edged inlet, Nottingham, paper 042, 8 – 10 September 2019.

8.2 Undergraduate Student Awards

2010

1. Member of Golden Key Honorary Society

2011

1. Best Academic 3rd year student in Huis Erika
2. 3rd place in Mechanical and Aeronautical Engineering

2012

1. Overall 2nd in Huis Erika
2. Best overall 4th year student
3. Best Research Project in Mechanical Design
4. Most Meritorious Student in Mechanical Design
5. Most Meritorious Student in Advanced Heat and Mass Transfer
6. Most Meritorious Student in Thermo Fluids
7. 2nd Place: Project Presentations

2013

1. Medal of the Engineering Council of South Africa
For the most outstanding achievement in the School of Engineering

2. Sasol Merit Medal
For the best final year student in Mechanical Engineering
3. Sasol Merit Medal
Awarded for excellence in Design in the final year of study in Mechanical Engineering
4. CA du Toit Medal and Prize
Awarded in the final year for excellence in the module Heat Transfer in Mechanical Engineering
5. Overall 2nd in Huis Erika