

# ***CURRICULUM VITAE***

**Dr. Ejup N. Ganić**

**Chancellor and Rector, Sarajevo School of Science and Technology**

## ***Biography***

### **EDUCATION**

Born on March 3, 1946. Graduated from the University of Belgrade (B.Sc. degree, 1970, Master's degree, 1972). In the fall of 1973 went to the United States to continue his graduate studies at the **Massachusetts Institute of Technology - MIT** (Boston, USA) and attained the Doctor of Science degree in Mechanical Engineering in 1976. He then began his academic career in the U.S., teaching at the University of Illinois in Chicago until 1982, and attaining a tenure professorship in Energy and Mechanical Engineering. In 1982 he returned to Bosnia and Herzegovina and joined the University of Sarajevo and UNIS Corporation.

### **ACADEMIC EXPERIENCE**

Author of many scientific papers and engineering studies in the area of thermos-fluid science; author, co-editor of six books published in the U.S., including four McGraw-Hill handbooks. As its founder, he served for many years as editor-in-chief of the International Journal of Experimental Thermal and Fluid Science published by Elsevier in New York. He served as the General Secretary and co-founder of the World Assembly for Thermal and Fluid Science and is the recipient of number of domestic and international awards of recognition for scientific and engineering work. He was a visiting professor in Russia: Moscow State University (Lomonosov, 1989) and Technology University Baumana in Moscow (1990). He has been a corresponding member of the Academy of Sciences and Arts of Bosnia-Herzegovina (ANUBiH) since 1995, and a full member (academician) as of 2005.

### **INDUSTRY**

In 1976 worked for Union Carbide Corporation as research engineer, From 1982 to 1990 he served on the Board of Directors of UNIS Corporation (in exports- the largest corporation in the metal industry in the Balkan region at that time). Charged with research and development in the company, he headed the formation of the UNIS Research Institute.

### **ADMINISTRATION AND POLICY EXPERIENCE**

Dr.Ganic has been involved in politics since 1990 and was among the most active political leaders in the Balkan region. In the first democratic elections in Bosnia-Herzegovina (November 1990), he was elected as a Member of the Presidency of Bosnia and Herzegovina, holding the office until September 1996. In that period, he served as a Vice-President and Acting President of the Presidency of the Bosnia and Herzegovina in March and April 1996 and for many shorter terms between 1990 and 1996. He was the President of the Federation of Bosnia-Herzegovina until March 2001, having also served as Vice-President of the Federation of Bosnia -Herzegovina during 1997 and 1999. He was the Head of Delegation of the Bosnia and Herzegovina Federation during the International Brcko Arbitration process from 1996 to 1999, which resulted in creation of the Brcko District in Bosnia and Herzegovina.

## **OTHER ACTIVITIES**

Founder of the MET Foundation in 1998 with its principal axiom “advancement through education.” Through the MET foundation he created the program for young entrepreneurs to provide one-stop shops for assistance in establishing new and small businesses. In 2003, through its work with the MET foundation, he established the first private non-profit University in Bosnia and Herzegovina named Sarajevo School of Science and Technology.

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## ***Academic Curriculum Vitae***

### **EDUCATION**

- Sc.D. (Doctor of Science), Mechanical Engineering, Massachusetts Institute of Technology, USA, 1976
- M.Sc of Technical Sciences, Chemical Engineering Department, University of Belgrade, 1972
- B.Sc, Chemical Engineering, University of Belgrade, 1970

### **POSITIONS HELD**

- President and Rector, Sarajevo School of Science and Technology, September 2004– to date ([www.ssst.edu.ba](http://www.ssst.edu.ba))
- Professor of Engineering Science, Sarajevo School of Science and Technology, September 2003– to date.
- Professor of Mechanical Engineering, University of Sarajevo, September 1982 – 1985.
- Member of the Executive Board of UNIS Corporation and Director of UNIS-Research Institute, Sarajevo, Bosnia and Herzegovina, 1984-1990
- Associate Professor of Heat Transfer (with tenure), University of Illinois at Chicago, September 1980 - September 1982
- Assistant Professor of Heat Transfer, University of Illinois at Chicago, September 1977 - September 1980
- Staff Engineer, Union Carbide Corporation - Linde Division, Tonawanda, New York, September 1976 - September 1977
- Visiting Assistant Professor, State University of New York at Buffalo, January 1977 - September 1977
- Research Associate & lecturer, Massachusetts Institute of Technology, June 1976 - September 1976
- Research Assistant, Massachusetts Institute of Technology, September 1973 - May 1976
- Research Engineer, Institute for Chemistry, Technology and Metallurgy, Belgrade, July 1972 - September 1973
- Visiting Research Assistant, Boris Kidric Institute of Nuclear Sciences, Vinca, Belgrade, September 1971 - July 1972
- Visiting Professor, Lomonosov Moscow State University, Moscow, Russia, September/October 1989
- Visiting Professor, Moscow Technical University Bauman, Moscow, Russia, June/July 1990

## MAJOR PUBLICATIONS

### I. Books

1. **E. N. Ganić**, T. Hicks, 2003, *McGraw-Hill's Engineering Companion*, McGraw-Hill Publishing Co., New York.
2. **E. N. Ganić**, T. Hicks, 1989, *Handbook of Essential Engineering Information and Data*, McGraw-Hill Publishing Co., New York.
3. W. M. Rohsenow, J. P. Hartnett, **E. N. Ganić** (Eds & Authors), 1985, *Handbook of Heat Transfer Fundamentals*, second edition, McGraw-Hill, New York.
4. W. M. Rohsenow, J. P. Hartnett, **E. N. Ganić** (Eds & Authors), 1985, *Handbook of Heat Transfer Applications*, McGraw-Hill, New York.
5. Keffer, J., Shah, R. K., **Ganić, E. N.** (Eds), 1991, *Experimental Heat Transfer, Fluid Mechanics and Thermodynamics*, Elsevier Science Publishing Co., New York.
6. Rodi, W., **Ganić, E. N.** (Eds), 1990, *Engineering Turbulence Modelling and Measurements*, Elsevier, New York.
7. Shah, R. K., **Ganić, E. N.**, Yang, K. T. (Eds), 1988, *Experimental Heat Transfer, Fluid Mechanics and Thermodynamics*, Elsevier Science Publishing Co., New York.
8. **E. N. Ganić**, 2005, *Prenos toplote, mase i količine kretanja*, Svjetlost, Sarajevo.
9. **E. N. Ganić**, 2007, *Razgovori i svjedočenje 1990-1994*, Svjetlost, Sarajevo.
10. **E. N. Ganić**, H. Bailan, 1998, *Bosnia after SFOR*, CDV Pub. American House.
11. **E. N. Ganić**, 1995, *Bosanska otrovna jabuka*, Bosanska knjiga, Sarajevo, 511 str.
12. **E. N. Ganić**, 2003, *Prenos toplote, mase i količine kretanja*, skripta, Pub. MET fondacija.

### II. Chapters/Articles in books/edited volumes

1. El-Kassaby, M. M., **Ganić, E. N.**, 1984, Droplet notion in two-phase flow. In: T. N. Veziroglu and A. E. Bergles (Eds), *Multi-Phase Flow and Heat Transfer III, Part A: Fundamentals*, Elsevier Science Publishers B. V., Amsterdam: 265-281.
2. Ragland, W. A., **Ganić, E. N.**, 1983, Flooding in counter-current two-phase flow. In: S. Kakac and M. Ishii (Eds), *Advances in Two-Phase Flow and Heat Transfer*, Martinus Nijhoff Publishers: 505-538.
3. **Ganić, E. N.**, Mastanaiah, K., 1982, Hydrodynamics and heat transfer of falling film flow. An invited lecture by E. N. Ganic at the NATO Advanced Study Institute – Int. Advanced Course on Low Reynolds Number Heat Exchangers, July 13-24, 1981, Ankara, Turkey. In: S. Kakac, R. K. Shah and A. E. Bergles (Eds), *Low Reynolds Number Heat Exchangers*, Hemisphere Publishing Co.: 487-527.
4. **Ganić, E. N.**, 1980, On the heat transfer and fluid flow in falling film shell-and-tube evaporators. Advanced Study Institute Meeting on Heat Exchangers, Istanbul, Turkey, August 4-15th 1980. In: S. Kakac, A. E. Bergles and F. Mayinger (Eds), *Heat Exchangers*, Hemisphere Publishing Co, 1981.
5. **Ganić, E. N.**, Mastanaiah, K., 1980, Experimental and theoretical investigation of deposition motion of liquid droplets in two-phase flow through a vertical tube. Advanced Study Institute Meeting on Heat Exchangers, Istanbul, Turkey, August 4-15, 1980. In: S. Kakac, A. E. Bergles and F. Mayinger (Eds), *Heat Exchangers*, Hemisphere Publishing Co, 1981.

6. **Ganić, E. N.**, Rohsenow, W. M., 1978, Deposition of drops in dispersed flow. T. N. In: T. N. Veziroglu and S. Kakac (Eds), *Two-Phase Transport and Reactor Safety***1**, Hemisphere Publishing Co: 159-188.
7. **Ganić, E. N.**, Rohsenow, W. M., 1978, An analysis of dispersed flow heat transfer using a drop deposition model. In: T. N. Veziroglu and S. Kakac (Eds), *Two-Phase Transport and Reactor Safety***2**, Hemisphere Publishing Co: 479-514.

### III. Journal publications

1. Šikalo, Š., **Ganić, E. N.**, 2006, Phenomena of droplet-surface interactions, *Experimental Thermal and Fluid Science*, **31**(2): 97-110.
2. Šikalo, Š., Tropea, C., **Ganić, E. N.**, 2005, Dynamic wetting angle of a spreading droplet, *Experimental Thermal and Fluid Science*, **29**(7): 795-802.
3. Šikalo, Š., Tropea, C., **Ganić, E. N.**, 2005, Impact of droplets onto inclined surfaces, *J. Colloid and Interface Science*, **286**(2): 661-669.
4. Šikalo, Š., Marengo, M., Tropea, C., **Ganić, E. N.**, 2002, Analysis of impact of droplets on horizontal surfaces, *Experimental Thermal and Fluid Science*, **25**: 503-510.
5. Šikalo, Š., Delalić, N., **Ganić, E. N.**, 2002, Hydrodynamics and heat transfer investigation of air-water dispersed flow, *Experimental Thermal and Fluid Science*, **25**: 511-521.
6. El-Kassaby, M. M., **Ganić, E. N.**, 1986, Droplet deposition in two-phase turbulent flow, *Int. Journal of Heat and Mass Transfer*, **29**(8): 1149-1159.
7. Roppo, M. N., **Ganić, E. N.**, 1983, A note on time dependent heat exchanger modelling, *Heat Transfer Engineering*, **4**(2).
8. Moose, R. A., **Ganić, E. N.**, 1982, On the calculation of wall temperatures in the post-dry out heat transfer region, *Int. Journal of Multiphase Flow*, **8**(5): 525-542.
9. Mastaniah, R., **Ganić, E. N.**, 1982, Surface effect on droplet deposition in two-phase flow, *Int. Journal of Heat and Mass Transfer*, **25**(3): 422-424.
10. Mastaniah, K., **Ganić, E. N.**, 1981-1982, Heat transfer in two-component dispersed flow, *ASME Journal of Heat Transfer*, **103**: 300-306, **104**: 219.
11. Sha, W. E., **Ganić, E. N.**, 1981, Transient heat conduction at low Blot numbers, *Letters in Heat and Mass Transfer*, **8**: 379-395.
12. **Ganić, E. N.**, Mastaniah, K., 1981, Investigation of droplet deposition from a turbulent gas stream, *Int. Journal of Multiphase Flow*, **7**: 401-422.
13. Yung, D., Lorenz, J. J., **Ganić, E. N.**, 1980, Vapour/liquid interaction and entrainment in falling-film evaporators, *ASME Journal of Heat Transfer*, **102**: 20-25.
14. **Ganić, E. N.**, 1980, Heat transfer characteristics of working fluids for OTEC, *1980 ASME Winter Annual Meeting, Chicago; ASME Publication HTD*, **12**: 55-66.
15. **Ganić, E. N.**, Wu, J., 1980, On the selection of working fluids for OTEC power plants, *1. Energy Conversion*, **20**: 9-22.
16. **Ganić, E. N.**, Moeller, L., 1980, Performance study of an OTEC system, *J. Applied Energy*, **6**: 289-299.
17. **Ganić, E. N.**, Roppo, M. N., 1980, A note on heat transfer to falling liquid films on vertical tubes, *Letters in Heat & Mass Transfer*, **7**: 145-154.
18. **Ganić, E. N.**, Roppo, M. N., 1980, An experimental study of falling breakdown on a horizontal cylinder during heat transfer, *ASME Journal of Heat Transfer*, **102**: 342-346.

19. **Ganić, E. N.**, Rohsenow, W. M., 1979, On the mechanism of liquid drop deposition in two phase dispersed flow, *ASME Journal of Heat Transfer*, **101**: 288-294.
20. Yung, D., Lorenz, I. I., **Ganić, E. N.**, 1978, Vapour/liquid interaction and entrainment in shell-and-tube evaporators, *ASME Publication*, **78-W AIHT-35**: 1-9; *Argonne National Laboratory Report*, ANL-OTEC-78-2: 1-25.
21. **Ganić, E. N.**, Seider, W. D., 1977, Simulation of potassium-steam combined-cycle, electrical power plants, *Computers & Chemical Engineering*, **1**(3): 161-169.
22. **Ganić, E. N.**, Rohsenow, W. M., 1977, Dispersed flow heat transfer, *Int. Journal of Heat and Mass Transfer*, **20**: 855-866.
23. **Ganić, E. N.**, Rohsenow, W. M., 1976, On the mechanism of liquid drop deposition in two phase flow, *ASME Publication*, **76-W AfHT-18**: 1-10.
24. **Ganić, E. N.**, Afgan, N. H., 1975, An analysis of temperature fields in the bubble and its liquid environment in pool boiling of water, *Int. Journal of Heat and Mass Transfer*, **18**: 301-309.
25. **Ganić, E. N.**, 1974, Primena dvostruke Laplasove transformacije na probleme prenosa mase i toplote, *Hemijska industrija*, **5**: 203-208.
26. **Ganić, E. N.**, 1974, Primena Laplasovih transformacija u hemijskom inženjerstvu, *Hemijska industrija*, **4**: 155-160.

#### IV. Articles in international conference proceedings

1. Kadrić, Dž., Šikalo, Š., Delalić, N., **Ganić, E. N.**, 2007, Experimental investigation of a falling film, *6<sup>th</sup> Int. Conf. on Multiphase Flow, ICMF 2007*, Leipzig, Germany, July 9-13, 2007, paper S5\_Thu\_B-49.
2. Šikalo, Š., Džaferović, E., Tropea, C., **Ganić, E. N.**, 2005, Contact angle effects on dynamics of droplets impacting onto solid surfaces, *6th World Conf. on Experimental Heat Transfer, Fluid Mechanics, and Thermodynamics*, April 17-21, 2005, Matsushima, Miyagi, Japan.
3. Šikalo, Š., Tropea, C., **Ganić, E. N.**, 2004, Dynamic wetting angle of a spreading droplet, *Proc. of 3rd Int. Symp. on Two-Phase Flow Modelling and Experimentation*, September 22-24, 2004, Pisa, Italy.
4. **Ganić, E. N.**, Šikalo, Š., 2004, Droplet-surface interactions (keynote paper). In: A. E. Berglas, I. Amon, C. H. Golobič, A. Bejan (Eds), *Proc. of the ASME – ZSIS Int. Thermal Science Seminar II*, June 13-16, 2004, Bled, Slovenia: 121-132.
5. Šikalo, Š., **Ganić, E. N.**, Tropea, C., 2004, Dynamics of wetting line of a spreading droplet. In: A. E. Berglas, I. Amon, C. H. Golobič, A. Bejan (Eds), *Proc. of the ASME – ZSIS Int. Thermal Science Seminar II*, June 13-16, 2004, Bled, Slovenia: 259-266.
6. Šikalo, Š., Tropea, C., **Ganić, E. N.**, 2003, Droplet impact analysis: experiment and theory, *Workshop on Fire Suppression Technologies*, February 24-27, 2003, Mobile, Alabama, U.S.A.
7. Šikalo, Š., Delalić, N., **Ganić, E. N.**, 2002, The effect of droplet concentration on deposition in dispersed flow, *Proc. of Workshop with Round table Discussion „Effective Methods of Energy Conversion and Relevant Measurement Techniques“*, November 4-5, 2002, Sarajevo, Bosnia and Herzegovina, paper XII 1-12.
8. Delalić, N., Šikalo, Š., **Ganić, E. N.**, 2002, Heat transfer investigation of air–water dispersed flow, *Proc. of Workshop with Round table Discussion „Effective Methods of Energy Conversion and Relevant Measurement Techniques“*, November 4-5, 2002, Sarajevo, Bosnia and Herzegovina, paper XIII 1–9.

9. Šikalo, Š., Tropea, C., Marengo, M., **Ganić, E. N.**, 2001, Oblique impact of droplets on walls and films. In: G. P. Celata, P. Di Marco, A. Mariani (Eds), *Proc. of the 5<sup>th</sup> World Conf. on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics*, September 24-28, 2001, Thessaloniki, Greece: 1553–1558.
10. Šikalo, Š., Tropea, C., Marengo, M., **Ganić, E. N.**, 2000, Spreading of droplets on horizontal surfaces, *Euro Conf. „Renewable Technologies for Sustainable Development“*, June 26-29, 2000, Madeira Island, Portugal.
11. Šikalo, Š., Delalić, N., **Ganić, E. N.**, 2000, On the two-phase dispersed flow hydrodynamics and heat transfer investigations, *Euro Conf. „Renewable Technologies for Sustainable Development“*, June 26-29, 2000, Madeira Island, Portugal.
12. Šikalo, Š., Delalić, N., **Ganić, E. N.**, 2000, Hydrodynamics and heat transfer investigation of air-water dispersed flow, *Proc. of ASME – ZSITS Int. Thermal Science Seminar*, June 11-14, 2000, Bled, Slovenia: 353-359.
13. Šikalo, Š., Marengo, M., Tropea, C., **Ganić, E. N.**, 2000, Analysis of impact of droplets on horizontal surfaces, *Proc. of ASME – ZSITS Int. Thermal Science Seminar*, June 11-14, 2000, Bled, Slovenia: 347-352.
14. Pržulj, V., **Ganić, E. N.**, 1991, Breakdown of subcooled falling liquid film flowing over heated horizontal tube. In: J. F. Keffer, R. K. Shah and E. N. Ganic (Eds), *Proc. of 2nd World Conf. on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics*, Dubrovnik, Yugoslavia, Elsevier Science Publishing Co., New York: 792-799.
15. Pržulj, V., **Ganić, E. N.**, 1990, An experimental-numerical method of investigation of falling film heat transfer on a horizontal tube with nonuniform heat flux, *Proc. of 9th Int. Heat Transfer Conf.* **6**, Jerusalem, Israel: 365-370.
16. Pržulj, V., **Ganić, E. N.**, 1990, Eksperimentalno istraživanje srednjeg koeficijenta prelaza toplote u pothlađenom tečnom filmu na horizontalnim cijevima, *Zbornik radova 8. jugoslovenskog simpozija termičara*, 8-10. Maj 1990, Neum, Jugoslavija: 145-152.
17. **Ganić, E. N.**, Pržulj, V., Šikalo, Š., Delalić, N., 1990, Pregled istraživanja prenosa toplote u tečnom filmu i dvofaznom toku, *Zbornik radova 8. jugoslovenskog simpozija termičara*, 8-10. maj 1990, Neum, Jugoslavija: 25-34.
18. **Ganić, E. N.**, Ivanović, M., 1990, Numerička analiza i simulacija izmjenjivača toplote sa rasprašivanjem radnog fluida, *Zbornik radova 8. jugoslovenskog simpozija termičara*, 8-10. maj 1990, Neum, Jugoslavija.
19. Ilic, K. T., **Ganić, E. N.**, 1989, Note on transient response analysis of heat exchangers with baffles-effects of shell and baffles mass and integration interval, *2nd World Congress on Heating, Ventilating, Refrigerating and Air Conditioning*, August 27. – September 1, 1989, Sarajevo, Yugoslavia.
20. Ilic, K. T., **Ganić, E. N.**, 1988, On the transient performance of heat exchangers with baffles, *Proc. of Int. Conf. on Energy Sources Management and Energy Saving Technology*, September 20-23, 1988, Beijing, China.
21. Ilic, K. T., **Ganić, E. N.**, 1987, Dynamic behaviour of heat exchangers with baffles, *Drugi jugoslovenski kongres za hemijsko inženjerstvo i procesnu tehniku – Second Yugoslav Congress on Chemical Engineering*, May 11-15, 1987, Dubrovnik, Yugoslavia.
22. **Ganić, E. N.**, Getachew, D., 1986, Effects of surface condition and working fluid on liquid film breakdown during heat transfer, *8th Int. Heat Transfer Conf. Proc.* **4**, Hemisphere Publishing Co., Washington: 1931-1936.

23. EI-Kassaby, M. M., **Ganić, E. N.**, 1983, Empirical formula for heat transfer coefficient in two-component two-phase flow, *3rd Multi-Phase Flow and Heat Transfer Symp. Workshop*, April 18-20, 1983, Miami Beach, Florida.
24. **Ganić, E. N.**, Roppo, M. N., 1979, Falling liquid film heat transfer and film breakdown, *Proc. of Second Multi-Phase Flow and Heat Transfer Symp. – Workshop*, Miami Beach, Florida, April 16-18, 1979. (Also in: T. N. Veziroglu (Ed), *Multiphase Transport*, Hemisphere Publishing Co., 1980: 927-943).
25. **Ganić, E. N.**, Roppo, M. N., 1979, Breakdown of falling liquid film during heat transfer, *Proc. of ICHMT on Heat and Mass Transfer in Metallurgical Systems*, Dubrovnik, Yugoslavia, September 3-7, 1979. (Also in: D. B. Spalding and N. H. Afgan (Eds), *Heat and Mass Transfer in Metallurgical Systems*, Hemisphere Publishing Co., 1981: 927-934).
26. EI-Kassaby, M. M., **Ganić, E. N.**, 1978, Phenomenological model of heat transfer in two-component dispersed flow, *ICHMT Seminar on Transient Phenomena in Multi-phase Flow*, May 24-30, 1978, Dubrovnik, Yugoslavia.
27. **Ganić, E. N.**, Moeller, L., 1978, On the optimization of an ocean thermal energy conversion system. In: A. Lavi and T. N. Veziroglu (Eds), *Proc. of Fifth Ocean Thermal Energy Conversion Conf.*, Publ. US Dept. of Energy, Conf. – 78026, Chapter 5: 147-163.
28. **Ganić, E. N.**, 1978, Some thoughts about further research in dispersed flow heat transfer, *Proc. of Sixth Int. Heat Transfer Conf.* **8**, Toronto, Canada, August 7-11, 1978. (Also in: *Heat Transfer* **8**, Hemisphere Publishing Co., 1979: 17-18).
29. Czikk, M., Fricke, H. D., **Ganić, E. N.**, Sharma, B. I., 1978, Fluid dynamic and heat transfer studies of OTEC heat exchangers. In: A. Lavi and T. N. Veziroglu (Eds), *Proc. of Fifth Ocean Thermal Energy Conversion Conf.*, Publ. US Dept. of Energy, Conf. – 78026, Chapter 5: 181-236
30. Czikk, M., Fricke, H. D., **Ganić, E. N.**, 1977, Enhanced performance heat exchangers. In: G. E. Ioup (Ed), *O. T. E. C. – Proc. of Fourth Ocean Thermal Energy Conversion Conf.*, University of New Orleans, Louisiana, U.S.A., Chapter 6: 71-92.
31. **Ganić, E. N.**, Seider, W. D., 1976, Simulation of potassium-steam, combined cycle electrical power plants, *81st AIChE Meeting*, Paper No. 15c-Fiche 10, Kansas City: 1-32.

#### V. Scientific and Technical Reports and Papers; Projects

1. **Ganić, E. N.**, Šikalo, Š., 2007, Droplet-wall interaction and heat transfer, final report for *Office of Naval Research*, ONR.
2. **Ganić, E. N.**, Šikalo, Š., Delalić, N., Kadić, Đ., 2004, Eksperimentalno određivanje koeficijenata prenosa mase i toplote u rashladnom tornju. *Izveštaj 2001–2004, Federalno ministarstvo obrazovanja i nauke BiH*.
3. **Ganić, E. N.**, Šikalo, Š., 2004, Office of Naval Research, ONR, contract number N00014-04-1-0389, entitled Droplet–Wall Interaction and Heat Transfer, First Year Extensive Report for FY04, up to December 30, 2004.
4. **Ganić, E. N.**, Šikalo, Š., Delalić, N., Đonko, V., 2001, Experimental investigation of mass and heat transfer in two-phase flows, Faculty of Mechanical Engineering Sarajevo, Final technical report for Government of Germany.
5. EI-Kassaby, M. M., **Ganić, E. N.**, 1984, Free Convection Between Two Inclined Parallel Plates, report, University of Cairo – paper submitted for publication.
6. Sha, W. E., **Ganić, E. N.**, 1981, Transient heat conduction at low biot numbers, *ANL Report*, Compt. Tech. Div.: 1-21.

7. Roppo, M. N., **Ganić, E. N.**, 1980, An experimental investigation of heat transfer to thin water films on horizontal and vertical tubes, Report No. TR-E-80-3, pp. 1-115, Dept. of Energy Engineering, Publ. University of Illinois, Chicago.
8. Moose, R., **Ganić, E. N.**, 1980, Calculation of wall temperature in post-dryout heat transfer, Report No. TR-E-80-2, Dept. of Energy Engineering, Publ. University of Illinois, Chicago: 1-67.
9. **Ganić, E. N.**, Mastanaiah, K., 1979, Studies of liquid drop deposition, drop carry-over velocity and heat transfer in two-phase drop flow, Report No. TR-E-79-1, Dept. of Energy Engineering, Publ. University of Illinois, Chicago: 1-74.
10. **Ganić, E. N.**, Wu, J., Comparative studies of working fluids for OTEC power plants, 1979, Argonne National Laboratory Report ANLiOTEC-PS-2: 1-29.
11. **Ganić, E. N.**, Czikk, M., 1977, An analytical model of the sprayed bundle evaporator, Publ. Union Carbide Corporation Report, Linde Division, Tonawanda, New York, August: 1-57.
12. Sharma, B. L. (Ed), Czikk, M., **Ganić, E. N.**, Suchow, D. H., 1977, A thermal-hydraulic analytical model for two-phase flow and heat transfer in large flooded tube bundle heat exchangers, Publ. Union Carbide Corporation Report, Linde Division, Tonawanda, New York, August: 1-25.
13. **Ganić, E. N.**, Rohsenow, W. M., 1976, Post-critical heat flux heat transfer, *M. I. T. Report*, No. 82672-97: 1-173.
14. Plummer, D. N., Iloeje, O. C., Rohsenow, W. M., Griffith, P., **Ganić, E. N.**, 1974, Post-critical heat transfer to flowing liquid in a vertical tube, *M. I. T. Report*, No. 72718-91: 1-209.
15. **Ganic, E. N.** Doctoral dissertation: *Post Critical Heat Flux Heat Transfer*, Massachusetts Institute of Technology, Boston, SAD, 1976.

### **HONORS (SELECTED)**

- Fulbright Travel Grant Recipient, 1973
- “Veselin Maslesa Award” for Science, Bosnia-Herzegovina 1987
- Honorary Doctorate, *honoris causa* (Doctor of Science), The University of Buckingham, Feb. 2008.
- Golden Medal-Leadership and Governance Award 2005, Seoul, Korea
- Recipient of 'PLAKETE KANTONA SARAJEVO' (Plaque of Kanton Sarajevo) in 2008 – Public recognition for contributions in the fields of science, technology, and higher education in the Sarajevo County, in Bosnia and Herzegovina, and in the world.
- ‘Alem Bosanskog Gazije’ 2011 (Golden Medal of Bosnian Leadership- first recipient of this award)

### **MEMBERSHIP (1973-1990)**

- Member of ASME (American Society of Mechanical Engineers)
- Member of AIChE (American Institute for Chemical Engineers)
- Member of ANS (American Nuclear Society)
- Member of Sigma Xi (MIT Chapter)

### **OTHER ACTIVITIES (1973-1990)**



- Reviewed proposals for National Science Foundation and Department of Energy of USA
- Reviewed papers for various national and international journals
- Chairman and Scientific Secretary of several international conferences
- Guest editor and member of advisory editorial board of several journals
- Scientific Council member of various international scientific associations and institutes
- Founder and Secretary General Assembly of World Conferences on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics

#### **TEACHING AND LABORATORIES DEVELOPMENT (1977 -2004)**

- Taught various courses in thermal-fluid sciences, energy engineering, mechanical and chemical engineering and industrial design.
- Developed three laboratories for experimental research/teaching in the fields of thermal-fluid sciences (Univ. of Illinois and Univ. of Sarajevo).

#### **MAJOR RESEARCH GRANT ACTIVITIES IN USA (title of proposal, funding agency, period)**

1. Studies of Liquid Drop Deposition, Drop Carry-Over Velocity and Heat Transfer in Two-Phase Flow, NSF (National Science Foundation of USA), March 15, 1978 - March 31, 1980.
2. Experimental Investigation of Minimum Flow Rates of Liquid Film Flowing Over Cylindrical Heat Transfer Surfaces, University of Illinois Research Board, Dec. 9, 1977 \_ June 15, 1978.
3. Experimental Study of Two-Phase Dispersed Flow, University of Illinois Research Board, Feb.16, 1979 - July 1, 1979.
4. Experimental Analysis of Heat Transfer and LiquidNapor Interaction in Falling Heat Exchangers for OTEC - part I, Department of Energy, Argonne National Laboratory, April 24, 1979- Sept. 30, 1979.
5. Experimental Analysis of Heat Transfer and LiquidNapor Interaction in Falling Heat Exchangers for OTEC- part II, Department of Energy, Argonne National Laboratory, Sept. 30, 1979 - Sept.30, 1980.
6. Contact Angle Measurements, University of Illinois Research Board, Feb.8, 1980 - July 1, 1980.
7. Thin Film Heat Transfer, Motorola Inc., May I, 1980 - Sept.30, 1980.
8. Heat Transfer and Droplet Deposition in Two-Component Dispersed Flow, National Science Foundation of USA, Nov.1 , 1980 - April 30, 1983.
9. Falling Liquid Film Breakdown During Heat Transfer, NSF-Yugoslav National Science, 1994.
10. Office of Naval Research (ONR), contract number N00014-04-1-0389, entitled Droplet Wall Interaction and Heat Transfer, 2004.

#### **PROFESSIONAL CONSULTING IN THE USA (1976-1982)**

Argonne National Laboratory, Component Technology Division, (October 1, 1977 to 1982), Chicago, USA

1. Two-Phase Flow Heat Exchangers - - involved with design, testing and data evaluation of various types of low ~ T heat exchangers for power generation industry.
2. Steam generator design analysis - - reviewed several proposals and made recommendations about thermo-hydraulic design.
3. Underground combustion heat transfer -- analyzed various concepts of underground combustion and made recommendations about the heat removal from the ground.
4. Liquid entrainment in shell-and-tube evaporators -- involved with a development of a model to calculate the liquid entrainment in shell-and-tube evaporators.
5. Working guides for low ~T power plant -- wrote a computer program for the OTEC system and developed a procedure for evaluation of various working fluids for low ~ T power plants.
6. Sodium pump design -- involved with an analysis of sodium vapor condensation on the rotating shaft and its effect on the performance of the pump.
7. Post critical heat flux heat transfer -- involved with an analysis of post critical heat flux data at the Argonne National Laboratory.
8. Instability in two-phase flow heat exchangers -- wrote a computer program to analyze the flow instability phenomena in OTEC heat exchangers.
9. Thin film heat transfer - - involved with an analysis of heat transfer in falling film evaporators.

**INVITED LECTURER (1973-1990)**

- University of Texas at Austin, USA, (1973)
- Massachusetts Institute of Technology, Cambridge, USA, (1974)
- State University of New York at Buffalo, USA, (1976)
- University of Illinois at Chicago, USA, (1976)
- Argonne National Laboratory, Argonne, USA, (1979)
- University of Istanbul, Turkey, (1980)
- Third NATO Advanced Study Institute on "Heat Exchangers". (Invited Lecture), Istanbul, Turkey, (1980)
- Institut "Boris Kidric", Vinca, Yugoslavia, (1978)
- Northwestern University, Evanston, USA, (1980)
- Motorola Inc., Shamburg, USA, (1978)
- Middle East Technical University, Ankara, Turkey, (1981)
- Institut fur Reaktorbauelemente Kernforschungszentrum, Karlsruhe, F.R. Germany, (1982)

- NATO Advanced Research Workshop on "Advances in Two-Phase Flow and Heat Transfer", (Invited Lecture), Spitzingsee/ Schliersee, F.R. Germany, (1982)
- Academy of Sciences of Bosnia and Herzegovina, (1983)
- Department of Physics, University of Sarajevo, (1984)
- Institute of Engineering Thermophysics, Chinese Academy of Sciences, Beijing, China, (1985)
- High Temperature Institute, USSR Academy of Sciences, Moscow, USSR, (1986)
- Kyoto University, Kyoto, Japan, (1987)
- Tsinghai University, Peking, China (1988)
- Institute of Thermophysics, USSR Academy of Sciences, Novosibirsk, Russia, (1989)
- Institute of Energy Research, Moscow, Russia, (1990)
- Institute for Nuclear Research, Moscow, Russia, (1990)
- Oxford Union, Oxford, U.K. (1992)

### **OTHER CONTRIBUTIONS**

- Founder of the MET Program for Young Entrepreneurs in Bosnia and - a program to identify potential young entrepreneurs, train and help them to prepare a business plan, and provide assistance in the start-up process, moving them toward self-sustainable business operation.
- Founder of the University-Sarajevo School of Science and Technology.