



CURRICULUM VITAE

- 1. Name and surname:** Iulian RIPOSAN
- 2. Date and place of birth:** 17.02.1948, Petreni, Transylvania, ROMANIA
- 3. Studies:**
- **BS – MS:** 1970 – Cast Metals Specialization, POLITEHNICA University of Bucharest, Romania;
 - **Ph.D.** 1978 – Compacted Graphite Iron, POLITEHNICA University of Bucharest-Romania.
 - 1991/1992 – **Fulbright Research Grant**, USA (Ferrous Matrix Comp.), Univ. of Alabama, Tuscaloosa, USA
- 4. Institution and position:**
- **Emeritus Professor**, POLITEHNICA University of Bucharest, Materials Science and Engineering Faculty, Metallic Materials Processing Department [Foundry Group].
- 5. Major teaching areas:**
- **CAST IRONS**, production & characterization
- 6. Publications**
- **More than 300 published papers, more than 150 in other countries [34] than Romania** [Germany, UK, USA, France, Japan, Swiss, Spain, India, Brazil, Australia, China, Norway, Holland, Korea, Poland, Turkey, Egypt, Canada, Portugal, Czech Republic, Hungary, Russia, Bulgaria, Slovakia, Sweden, Mexico, Slovenia, Belgium, Croatia, Serbia, Argentina, South Africa, Moldova, UAE]
 - **130 papers and patents in ISI Web of Knowledge-ISI Thomson Reuters**
 - **35 Patents** (30-Indexed in ISI-Web of Knowledge - Derwent Innovation Index).
 - **Other International Data-Bases [BDI]:** 130-SCOPUS (h=15); 231-Google ScholarAcademic; 87-Metals Abstracts CSA/METADEX; 55 – Chemical Abstracts; 28 BCIRA (British Cast Iron Research Association) Abstracts; 32 – COMPENDEX; 15 –INSPEC, 11-AFS Library Abstracts.
 - **3 Technical Books:**
 - Compacted Graphite Cast Iron (1984),
 - White Cast Irons (1985) and Bainitic Cast Irons (1989), Ed. Tehnica, Bucharest, Romania.
 - Cast Irons – Textbook(1985, 2009, 2010)
 - **Modification and Inoculation of Cast Iron** [Capit. 1A-3.1.5], *ASM-American Society of Materials Handbook*, Vol. 1A: Cast Iron Science and Technology, 2017.
 - **Romanian Civilization**, Vol. 24 (History of the Romanian Industry): Vol. I, Chapter 3 History of Metallurgy; Editura Academiei Române, Bucharest, 2019.
 - **22 Papers have represented Romania at World Foundry Congresses/ World Foundry Organization - WFO (1974 - 2022):** (Romania is a WFO member): 1974 [Belgium], 1975 [Portugal], 1976 [Romania], 1979 [Spain], 1981 [Bulgaria], 1984 [Portugal], 1985 [Australia], 1986 [Cehoslovia], 1992 [Brazil], 1993 [Holland], 1995 [China], 1996 [USA], 1998 [Hungary], 2000 [France], 2002 [Korea], 2004 (Turkey), 2006 [UK], 2008 [India], 2010 [China], 2012 [Mexico], 2014 [Spain], 2018 [Poland], 2022 [Korea].
 - **16 Papers at the last 11 (from 12) International Symposium on Cast Irons:** 1974-Swiss, 1984-Swden, 1989-Japan, 1994-France, 1998-USA, 2002-Spain, 2006-China; 2010-Egypt; 2014-Argentina; 2017-Sweden; 2021-Japan. Member of the International Organizing Committee (1998 - present).
 - **38 Papers included in American Foundry Society (AFS) and Ductile Iron Society (DIS) Congresses, USA / Canada / Mexico:**
 - ***AFS Metalcasting Congress** [annual congresses]: 1985 [Invited Paper, CGI], 1996 [Philadelphia], 2000 [Pittsburgh], 2001 [Dallas], 2002[Kansas City], 2003 [Milwaukee], 2004 [Rosemont], 2005 [St. Louis], 2006 [Columbus-OH], 2007 [Houston], 2008 [Atlanta], 2009 [Las Vegas], 2010 [Orlando], 2011 [Schaumburg], 2012 [Columbus-OH], 2013 [St. Louis], 2014 [Schaumburg]; 2015 [Columbus-OH];

2016 [Minneapolis], 2018 (Fort Worth-TX).

***Keith Millis Ductile Iron Symposium, USA:** at the last 5 from 6 Symposiums: 1998 –Hilton Head Island, SC [50 years-DI]; 2003 – Hilton Head Island, SC; 2008 – Las Vegas, NV; 2013 – Nashville, TN; 2018-Hilton Head Island-SC.

***AFS / DIS Specialized Conferences:** AFS International Cast Iron Inoculation Conference: 1998, 2005 [USA]; AFS International Iron Melting Conference: 2009, 2015 [USA]; The “Carl Loper” Cast Iron Int. Symposium: 2009 [USA]; AFS Conference, Saltillo, Mexico, September 2008; World Conferences on Austempered Ductile Irons: 1991, 200 [USA]; Ductile Iron Society (DIS) Annual Meeting: 2004 [Canada]

- **Cast Iron European Meeting:** 2009 – Paris, France; 2010 – Jonkoping, Sweden; 2011 –Clausthal, Germany; 2012 – Durango, Spain; 2013 – Kristiansand, Norway; 2014 - Nancy, France; 2015-Gent, Belgium, 2017 - Verona, Italy; 2021 - Krakow, Poland.
- **Other International Congresses/Conferences:** **AFC – Asian Foundry Congress** 1999 [Calcutta – India], 2008 [Nagoya – Japan]; **ARABCAST** – Arabian Foundry Congress, Egypt: 1997, 2000, 2004 Alexandria, 2008, 2015– Sharm-el-Sheik- 2017- Cairo; **CupolaInternational Conference** 2000 [Strasbourg – France], II. 2004 [Trier - Germany]; **Others:** II *Vedeka Conf. s Mezinarodni Ucasti*, Brno, Cehoslovakia, 1978; *FOCOMP’86 Intern. Conference*, Krakow, Poland, 1986; *7th Intern. Ferroalloy Congress (INFACON 7)*, 1995 –Norway; *The 1st Europ. Rolling Conference* 1996, Balatonszeplak, Hungary; *METAL’97, 6th Intern. Metal. Fair and Symp.*, Ostrava, Slovacia, 1997; *3rd ASM Intern. Conf. on TheRecycling of Met.*, 1997, BarcelonaSpain; *Intern. Conf. “Genetic Engin. in Alloys (Heredity)* 1998, Samara, Russia; *Intern. Conf. ADI*, 2000, Krakow, Poland; *2nd Intern. Foundry*, March 2001, Istanbul, Turkey; *16th Hungarian Foundry Days*, Lillafured, Hungary, 2001; *Conf. on “DI of the 21st Century”*, 2003, Krakow, Poland; *CASTING CLINIC 2006Conference*, Krakow, Poland, 2006; *First Afro-Asian Conf. on Adv. Mater. Sci. Techn.*, 2006, Cairo, Egypt; *Intern. Foundry Conf.*, Portoroz, Slovenia, 2011, 2012, 2015, 2016, 2018, 2021, 2022. *Croatian Int. Foundrymen Conf.* 2013, 2014, 2016, 2017, 2018 Opatija; 2021 Split, Croatia. *Int. Conf. on Material Science & Research*, 2017, Dubai, UAE. *49th Int. Conf. On Mining & Metallurgy* Bor, Serbia. *7th Int. Conf. On Mechanics & Materials Design*, 2017, Albufeira, Portugal. *Int. Sci. Conf. « Solidif. & Crystallization of Metals »*, 2016 [Kielce], 2022 [Gliwice], Poland.
- **Technical Conferences:** USA, France, Japan, China, Egypt, Russia, India, Norway, [Universities, Research Institutes, Metalcasting Producers]

7. Major research areas:

- Lamellar, Nodular, Compacted/Vermicular and Coral Graphite Irons, processing and characterization.
- Austempered Cast irons with LG, NG, CG or Coral Graphite
- Cast Iron Matrix Composite / New modifying techniques for cast irons.
- Cupola and electric furnaces operations
- More than 160 technical agreements (Contractual documents with cast iron foundries in order to solve many aspects of castings manufacture).

8. Professional and Scientific Associations

- Romanian Foundry Technical Association (ATTR) [*President*-1996 - 2014]
- World Foundry Organization (WFO) – ATTR-Romania Representative
- AFS-American Foundry Society (International Member/Alumni)
- ASM International-The Materials Information Society (Member)
- Romanian Society of Metallurgy (SRM) (Member of the Board)
- Romanian Inventors Association (Member)
- UNIROMSIDER (Romanian Steel Producers Union) (Consulting Member)

9. Awards

- **HONORARY MEMBER of TECHNICAL SCIENCES ACADEMY of ROMANIA, Materials Science and Engineering Section**
- **“Aurel Vlaicu” Award of ROMANIAN ACADEMY** (1985) for Compacted Graphite production and characterization contribution
- **American Foundry Society [AFS] – AWARD OF SCIENTIFIC MERIT- 2012** “for advancing the knowledge of the cast iron industry through extensive research and for generously sharing his knowledge and expertise with the industry”. “This is the highest recognition the American Foundry Society and your peers can give to the individuals who have served the industry honorably and well. In presenting this award, we are confident it will bring you the recognition you so well deserve. The spirit in which you have fulfilled AFS’ mission of sharing knowledge has been one of the main considerations in making this award”.

- **BEST SCIENTIFIC PAPER AWARD – GOLD – 74th World Foundry Congress, Busan, Korea, 2022 – (High Si Ductile Cast Irons)**
- **THE BEST PAPER AWARD-63rd World Foundry Congress, 1998, (Ductile Cast Iron and Compacted / Vermicular Graphite Cast Iron Contribution).**
- **THE BEST OPERATING PAPER AWARD-106th American Foundry Society Casting Congress, USA 2002, (Compacted Graphite Iron, S addition after Mg-treatment).**
- **THE BEST PAPER AWARD – 107th American Foundry Society Casting Congress, USA 2003, (Iron Melt Desulphurization)**
- **2 Romanian National Awards for scientific and technical creativity in modifying iron area (1987 and 1989)**
- **10 Awards at Romanian National Patent Exhibition**
- **Honor Diploma of POLITEHNICA University of Bucharest for invention activity (1988).**
- **"HONORARY PROFESSOR" of "Dunarea de Jos" University, Galati, Romania, 2012**