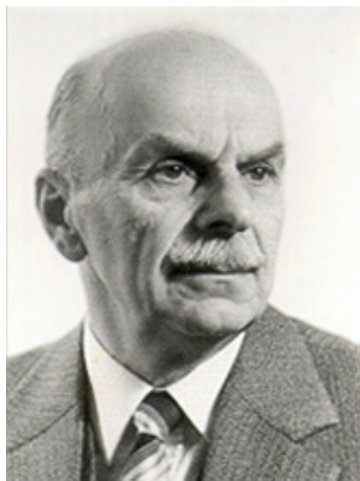


In Memoriam Academician Milan Herak (1917-2015)



doi: 10.4154/gc.2015.25

Geologia Croatica



Milan Herak, renowned Croatian geologist, passed away in Zagreb on April 29th, 2015 at the age of 98. He was born on March 5th, 1917, in the small village of Brašljevića, in the midst of the Žumberak karst area. He grew up and was educated within a large family; therefore he acquired work habits at an early age, as well as a sensibility and appropriate feeling for team work, dominated by mutual cooperation and support. That proved to be of a substantial advantage later, as in his professional career he often occupied leading positions, acting variously as head of institute, dean, research team leader, chairman of various commissions, boards and committees, but also as teacher, mentor, and adviser. In performing these functions, he knew how to create, stimulate and maintain an inspiring and positive atmosphere. His education included primary school in Kast (Žumberak), a classical Gymnasium in Zagreb, and a natural science group at the Faculty of Philosophy (now **Faculty of Humanities and Social Sciences**) in Zagreb from 1937 to 1941 when he graduated. He then spent six months (1942/43) in Vienna with Julius Pia, exploring fossil sponges and fossil calcareous algae. Due to health problems he returned earlier than planned to Zagreb, and soon afterwards Milan Herak

obtained his doctorate at the Faculty of Philosophy with a thesis on Triassic limestone sponges from the group *Sycones*. His adviser was Fran Šuklje.

Milan Herak was employed in 1943 in the Geology and Palaeontology Museum in Zagreb, where he worked until 1952. From 1952 to 1958 he was an assistant professor and then associate professor at the Technical Faculty (now the Faculty of Mining, Geology and Petroleum Engineering). In 1958 he transferred to the Faculty of Science at the University of Zagreb, where until 1961 he was an associate professor, and from 1961 until his retirement in 1982, Professor. From 1959 to 1974 he was Head of the Geology and Palaeontology Institute. Moreover from 1964 to 1966 he was Dean of the Faculty of Science.

Milan Herak is a doyen of Croatian geology, as a scientist he was active from 1943 until 2012, when he published his last article in our journal *Geologia Croatica* which in a way, was his synthesis on his thoughts on the Tectogenetic relationships of Dinaric and Alpine orogenies. In his long and fruitful life, Herak developed a mind-blowing scientific activity, not only regarding the sheer number of publications (over 220, see Bibliography), including several books and repeated editions of textbooks, but also, and probably more importantly, regarding the scope and diversity of themes. Let us remember only the main areas of his scientific activity. First, he began with palaeontology, which posed no difficulty for him, for he had graduated as a major in biology. However, he was soon recruited to geology by his teacher, Marijan Salopek (who quickly recognized his talents and capacities). Herak was the first in this country to apply the biometric method and populational approach in palaeontology (which of course to-day we know to be the only correct approach). Regrettably, in this he was not (until quite recently) always followed by younger authors. His favourite fossil group were calcareous dasyclad algae particularly (but not only) from the Triassic. In this he educated a group of younger researchers, so that to-day we can speak with good reason of a Zagreb School of calcareous algae. Adding to his

research on Triassic dasyclad algae, Herak was invited to join the UNESCO international project on the Triassic, whereupon the stratigraphy and palaeogeography of the Triassic became his second main field of activity. Here, among other things, most credit goes to him for the world-wide recognition of the Muć section as a type-stratum for the Tethyan-type (or Alpine) Lower Triassic. Herak's third main area of activity was regional geology and geotectonics. In 1986 (later followed by a series of papers) he presented, already as a mature and experienced researcher, based on his thorough knowledge of the geology of the Dinarides, a new conception of the geotectonics of the Dinarides, culminating in his last extensive (or synthetic) paper in 2012. As distinct from all previous approaches, Herak's conception was based on a mobilistic approach, which is of course to-day the generally accepted geological paradigm. Last but not least – in contrast and perhaps even of prime importance! is the activity in which Herak also gained world-wide recognition (perhaps even the greatest) but for which he also deserved the greatest credit in the Croatian economy, is the geology and hydrogeology of karst. Here, too, we may speak with good reason of the Zagreb karst research school. In contrast to virtually all the previous investigations of karst, that were basically descriptive and limited to geomorphology – and yet pretending to having developed some all-encompassing and generally valid theories – Herak recognized that for successful solution of each particular case first the geological underground (and genesis) should be resolved (or unravelled). For on it depends the distribution and behaviour of both surface and underground water streams, as well as all other karst features (caves, caverns, etc.), including the possibility of storage reservoirs (lakes), the latter being of course of direct economic usefulness. This was of particular significance for the post-Second-world-war developing Croatian economy, so that to-day we have functioning our largest hydroelectric power plants on accumulation lakes: Peruća, Senj, Vinodol, Rječina, Obrovac, as well as in the former Yugoslavia: on Drina (in Serbia and Bosnia-Herzegovina), Neretva (in Bosnia and Herzegovina), and Tara and Morača (in Montenegro) rivers, as well as a number of smaller ones. These successful solutions – which were, at first, rather sceptically viewed by the world karstologists community – brought to Herak the well-deserved reputation of being the top-level expert for karst hydrogeology. Thus he was engaged by the UN (UNESCO and FAO) to solve the problem of water supply in Egypt, Lebanon, Greece, Turkey and other peri-Mediterranean countries, as well as in Iran and the Caribbean (Jamaica). As early as 1965 the well-known international publishing house Elsevier invited Herak to be the co-editor (with Victor Stringfield) and main contributor of the first monograph on the karst of the northern hemisphere and after a few years, in 1972 the book *Karst, Important karst regions of the Northern Hemisphere*, was published and enthusiastically greeted by the world karstologic community, being, at that time, the first and only book of such a broadly encompassing scope. In a national context, the culmination of his research of the Dinaric Karst was the Basic hydrogeological map of the Dinaric Karst at 1:500,000 (in cooperation with Stjepan

Bahun), published in 1974 and which later served as the base for the hydrogeological map of the former Yugoslavia at the same scale.

In all his fields of activity, which were also pioneering in Croatia, in addition to the geology and hydrogeology of karst in which he acquired the world-wide renowned status, Herak left behind well-trained groups of competent younger researchers who, more or less successfully, continue his work. Moreover, Herak also published papers in the fields of epistemology, the history of geology, bibliographies, and in the very beginning, in museology.

Herak became a corresponding member of the Croatian (then Yugoslav) Academy of Sciences and Arts in 1963, and after ten years (arguably waiting too long), in 1973, was elected to full membership. Soon he became the vice-president of the Academy (1975-1978), which was followed by a series of functions: first deputy secretary and then secretary of the Department of natural sciences, which demonstrates his positive, always constructive character, and willingness to accept a lower-ranking function. Later, he was for many years a member of the Presidency, editor-in-chief of several journals (periodicals), head of the Committee for Karst Research, Committee for Geotectonics, and Institute for Quaternary Palaeontology and Geology. His discussions in the Academy, as well as in all other occasions, will be remembered for his constructive, well-meaning, conciliatory (but not humouring or submissive) tone. He was the corresponding member of the Austrian Academy of Science from 1977 and of the Slovenian Academy of Sciences and Arts from 1991. In 1977 he was also elected as a corresponding member of the Serbian academy of Sciences and Arts, but he recinded his membership in 1991. In the Croatian geological society he was, from its onset in 1951, its first secretary, later becoming its president. In addition, he was for many years a member of German, Austrian, Swiss and French geological societies.

Teaching activity of Professor Herak started back in 1949 as a part-time lecturer at the Faculty of Science with two new introduced courses *Palaeobotany* and *Palaeobiology*. At the Faculty of Technics Herak introduced the course *Engineering Geology*. After transfer to the Geology department of the Faculty of Science in 1958. along with the standard courses Herak introduced two new *Karst geology* and *Regional geology with geotectonics*. He was a mentor to a large number of graduates, masters and doctorate students, and thus significantly influenced the development of geology in Croatia. In 1960 postgraduate studies in geology were founded at the Faculty of Science and Herak was the first leader. In addition to the University of Zagreb, Herak taught at postgraduate studies level in colleges of the Universities of Sarajevo and Belgrade.

As a long time university professor Milan Herak wrote number of textbooks, some of which are still used. It is worth emphasizing the textbook of Geology that has seen as many as 5 editions, which was the basic textbook for numerous generations of geologists at the University of Zagreb, as well as on a number of faculties in the former Yugoslavia. The

first edition was in 1960 and fifth in 1990, and in total about 10,000 copies were printed. This textbook actually integrated three textbooks: General (or physical) geology; Stratigraphic (historical) geology; and Regional geology. After his retirement, he was elected in 2001 to the position of Professor Emeritus in recognition of his contributions to the development of the University of Zagreb.

Milan Herak contributed significantly also to the popularization of geology through numerous articles and popular books. Among them it is worth mentioning the *Kora zemljina povijesnica života* (Earth's crust – history of life) booklet published in 1945 as the fifth book in the series „Little scientific library HPD“ and the popular – professional book: *Earth – evolution, structure, dynamics, sources of raw materials* with co-authors Vanda Kochansky-Devide, Velimir Kranjec and Boris Šinkovec, which was printed by the Academy in 1976.

In 2015, the *Croatian Geological Society* and the publishing house *Izvori* printed academician Herak's autobiography titled *My life without signposts*, a manuscript which he finished on his 96th birthday. In it he put forward many important and interesting pieces of information which lit up his life, but also the development of geology and overall science in Croatia in the last seventy years.

Academician Milan Herak was also very socially engaged. Thus, for example in the establishment of the Croatian Geological Society in 1951, he was elected the first secretary, and later became chairman, and since 1976 he was the Society's honorary member.

Herak was a recipient of numerous awards and decorations: the City of Zagreb Memory Medal 1965, Ruđer Bošković Award 1968, Lifetime Achievement Award 1976; Order of Work with golden wreath 1981, Order of merit for people with golden star 1986, and Order of Croatian Morning Star with Stjepan Radić's image 1998. Herak had a rich and meaningful life with extraordinary achievements. His harmonious family were a great support, especially his wife, in the true sense of the word a lifetime companion, Mrs. Ojdana Herak (born Allegretti) whom he met while still as a student.

For all that Professor and Academician Herak gave to Croatian and world's science, may his memory live on!

Ivan Gušić and Mladen Juračić

BIBLIOGRAPHY

Books

1. HERAK, M. (1945): Kora zemljina povijesnica života [*Earth crust as history of life* – in Croatian].– Hrv. prir. društvo, Zagreb, Mala naučna knjižnica, 5, 40 p.
2. HERAK, M. (1948): La crosta terrestre documentario dell'evoluzione della vita.– Istituto edit. della Croatia, Zagabria, 38 p.
3. TAJDER, M. & HERAK, M. (1951): Petrografija i geologija [*Petrography and geology* – in Croatian].– Školska knjiga, Zagreb, VIII+231 p.

4. HERAK, M. (1953): Paleobotanika za geologe i biologe [*Paleobotany for geologists and biologists*– in Croatian].– Školska knjiga, Zagreb, VII+160 p.
5. TAJDER, M. & HERAK, M. (1959): Petrografija i geologija. II izd. [*Petrography and geology, II edition* – in Croatian].– Školska knjiga, Zagreb, X+280 p.
6. HERAK, M. (1960): Geologija – Struktura, dinamika i historija Zemlje [*Geology – Structure, dynamics and history of Earth* – in Croatian].– Školska knjiga, Zagreb, XI+433 p.
7. HERAK, M. (1963): Paleobotanika. II izd. [*Paleobotany, II edition* – in Croatian].– Školska knjiga, Zagreb, XI+180 p.
8. TAJDER, M. & HERAK, M. (1966): Petrografija i geologija. III izd. [*Petrography and geology, III edition* – in Croatian].– Školska knjiga, Zagreb, X+400 p.
9. HERAK, M. & STRINGFIELD, V. T., eds. (1972): Karst, Important karst regions of the Northern Hemisphere, Elsevier, Amsterdam, XV+551 p.
10. TAJDER, M. & HERAK, M. (1972): Petrologija i geologija. IV izd. [*Petrography and geology, IV edition* – in Croatian].– Školska knjiga, Zagreb, X+356 p.
11. HERAK, M. (1973): Geologija. Struktura, dinamika i razvoj zemlje, II izd. [*Geology – Structure, dynamics and history of Earth, II edition* – in Croatian].– Školska knjiga, Zagreb, XII+465 p.
12. HERAK, M., KOCHANSKY-DEVIDÉ, KRANJEC, V. & ŠINKOVEC, B. (1976): Zemlja – evolucija, struktura, dinamika i izvor sirovina [*Earth – evolution, structure, dynamics and resources* – in Croatian].– Jugosl. akad. znan. i umjetn., Zagreb, 259 p.
13. HERAK, M. (1984): Geologija. III izd. [*Geology, III edition* – in Croatian].– Školska knjiga, Zagreb, XV+429 p.
14. HERAK, M. (1987): Geologija. IV izd. [*Geology, IV edition* – in Croatian].– Školska knjiga, Zagreb, XV+433 p.
15. HERAK, M. (1990): Geologija. V izd. [*Geology, V edition* – in Croatian].– Školska knjiga, Zagreb, XV+433 p.
16. HERAK, M. (2002): Povijesni temelji hrvatske geologije [*Historic Foundations of Croatian Geology, III edition* – in Croatian].– Hrvatska akademija znanosti i umjetnosti, Zagreb, 183 p.
17. HERAK, M. (2006): Medvednica – zagonetno Zagrebačko gorje [*Medvednica – puzzling Zagreb mountain* – in Croatian].– Posebna izdanja Hrvatske akademije znanosti i umjetnosti i Hrvatskog geološkog instituta, Zagreb, 195 p.
18. HERAK, M. (2015): Moj životni put bez putokaza [*My life without signposts* – in Croatian].– Hrvatsko geološko društvo and Izvori, Zagreb, 159 p.

Scientific Papers

1. HERAK, M. (1943): Zur Kenntnis tradischer Kalkschwämme (Sycones).– N. Jb. Min. Geol. Paläont., (Abh.), (B), Stuttgart, 88, 107–135.
2. HERAK, M. (1944): Triaske vapnene spužve iz skupine „Sycones“ [*Triadische Kalkschwämme aus der Gruppe „Sycones“*].– Vjestnik Hrv. drž. geol. zavoda i Hrv. drž. geol. muzeja, 2/3, 41–70.
3. HERAK, M. (1947): Prilog stratigrafskom raščlanjivanju mezozojskih naslaga jugozapadnog dijela Žumberačke gore.– Geol. vjesnik, 1, 3–5.

4. HERAK, M. (1947): Starost i sistematske značajke spiljskog medvjeda Hrvatske [*Geological age and taxonomical characters of cave-bear of Croatia* – in Croatian].– Geol. vjesnik, 1, 12–47.
5. HERAK, M. (1950): Ladiničke Dasycladaceae Jugoslavije i njihovo stratigrafsko značenje.– Rad Jugosl. akad. znan. i umjetn., 280/3, 115–142.
6. HERAK, M. (1951): Ladinic Dasycladaceae of Yugoslavia and their stratigraphical significance.– Bull. Intern. Acad. Yougoslav. sci. et beaux-arts, Zagreb, 3, 51–56.
7. HERAK, M. (1952): Značenje alge *Sphaerocodium bornemanni* Rothpletz za interpretaciju gornjeg trijasa u području Zagorske Mrežnice.– Rad Jugosl. akad. znan. i umjetn., 289/4, 187–195.
8. HERAK, M. (1952): Die Bedeutung der Alge *Sphaerocodium Bornemanni* Rothpletz für die Interpretation der Obertrias im Gebiet von Zagorska Mrežnica.– Bull. Intern. Acad. Yougosl. sci. et beaux-arts, Zagreb, 7, 85–88.
9. HERAK, M. (1954): O geološkim prilikama područja Korane uzvodno od Slunja [*Über die geologischen Verhältnisse des Korana Gebietes von Slunj* – in Kroatien].– Geol. vjesnik, 5–7, 7–24.
10. HERAK, M. (1956): Geologija Samoborskog gorja [*Geologie des Samoborer Gebirges. Acta geol.*].– Jugosl. akad. znan. i umjetn., 1, (Prir. istraž. 27), Zagreb, 49–73.
11. HERAK, M. (1956): O nekim hidrogeološkim problemima Male Kapele [*On some hydrogeological problems of the karst mountain Mala Kapela in Lika, Croatia*].– Geol. vjesnik, Zagreb, 8–9, 19–37.
12. HERAK, M. (1956): O mezozoiku područja Korane između Barilovića i Poloja [*Über das Mesozoikum des Korana Gebietes zwischen Barilović und Poloj*].– Geol. vjesnik, 8–9, 53–66.
13. HERAK, M. (1956): Stratigrafska interpretacija trijaskih sedimenata s dasikladacejama u okolici Gračaca u Hrvatskoj [*Stratigraphische Interpretation triadischer Sedimente mit Dasycladaceen der Umgebung von Gračac in Kroatien*]. Acta geol., 1, (Prir. istraž. 27), Jugosl. akad. znan. i umjetn., Zagreb, 149–154.
14. HERAK, M. & MALEZ, M. (1956): *Teutloporella herculea* (Stoppani) in the district of Golubovec, N-W Croatia.– Bull. sci. Cons. Acad. Yougosl., 2/4, 106.
15. HERAK, M. (1957): Osnovni principi rada u našim geološko-paleontološkim muzejima [*Basic principles of work in our geological and paleontological museums*].– Muzeji, Zagreb, 11–12, 49–54.
16. HERAK, M. (1957): Znanstveno djelo Dragutina Gorjanovića Krambergera.– Geol. vjesnik, 10, 1–7.
17. HERAK, M. (1957): Geološka osnova nekih hidroloških pojava u dinarskom kršu (*Geologische Grundlagen einiger hydrologischen Erscheinungen im Dinarischen Karst*).– Zbornik 2. kongr. geol. Jugosl., Sarajevo, 523–539.
18. HERAK, M. (1957): Geološka podloga krškog područja.– Savezno savj. o kršu, Split. Krš Jugosl., 5, 11–23.
19. HERAK, M. (1957): Novi nalazi sferokodija u Hrvatskoj i Sloveniji (*Neue Funde von Sphaerocodium in Kroatien und Slowenien*).– Geol. vjesnik, 10, 31–38.
20. HERAK, M. (1957): Some problems in the dasyclad genus *Diplopora*. Micropaleontology, 3/1, 49–52.
21. HERAK, M. (1958): The dasyclad genus *Physoporella* in the Anisian of Yugoslavia. J. Paleont., Soc. India (Birbal Sahni Mem.), Lucknow, 3, 59–63.
22. HERAK, M. (1959): Prilog geologiji i hidrogeologiji otoka Hvara (Zur Geologie und Hydrogeologie der Insel Hvar).– Geol. vjesnik, 12, 135–148.
23. HERAK, M. & KOCHANSKY-DEVIDÉ, V. (1959): Jurassic calcareous algae in some new localities in the Dinaric mountains.– Bull. sci. Cons. Acad. Yougosl., (A), 102–104.
24. HERAK, M. (1960): Calcareous algae of the Young Palaeozoic and Mesozoic of Yugoslavia, and their applications in the stratigraphy. Rep. 21. Sess., Norden (Intern. Geol. Congr.), Copenhagen, 6, 90–97.
25. HERAK, M. (1960): Geologija Gračačkog polja u Lici (Geologie des Karst Polje von Gračac in der Lika, Kroatien). Geol. vjesnik, 13, 31–56.
26. HERAK, M. (1960): Kreda s ofiolitima u Ivanščici (sjeverozapadna Hrvatska) (Kreide mit Ophiolithen in der Ivanščica, NW Kroatien). Acta geol., 2, (Prir. istraž. 29), Jugosl. akad. znan. i umjetn., 111–120.
27. HERAK, M. & KOCHANSKY-DEVIDÉ, V. (1960): Gymnocodiacean calcareous algae in the Permian of Yugoslavia (Gimnokodijacejske vapnenačke alge u permu Jugoslavije). Geol. vjesnik, 13, 185–196.
28. KOCHANSKY-DEVIDÉ, V. & HERAK, M. (1960): On the Carboniferous and Permian Dasycladaceae of Yugoslavia (O karbonskim i permskim dasikladacejama Jugoslavije). Geol. vjesnik, Zagreb (1959), 13, 65–96.
29. HERAK, M., BOJANIĆ, L., ŠIKIĆ, D. & MAGDALENIĆ, A. (1961): Novi elementi tektonike u području gornjeg toka rijeke Kupe (Neue Elemente der Tektonik im Gebiet des Oberlaufs des Kupa-Flusses). Geol. vjesnik, 14, 245–251.
30. HERAK, M. (1962): Tektonska osnova hidrogeoloških odnosa u izvornim područjima Kupe i Korane (s Plitvičkim jezerima) (Tektonische Grundlage der hydrogeologischen Verhältnisse in der Quellengebieten von Kupa und Korana mit Plitwitzer Seen). Referati 5. sav. geol. FNR Jugosl., Beograd, 3, 17–25.
31. HERAK, M. (1962): Trias de la Yugoslavie. Geol. vjesnik, 15/1, 301–310.
32. HERAK, M. (1963): Trias de Yugoslavie. In: Le Trias de la France et des regions limitrophes. Mem. Bureau Rech. Geol. Min., 15, 477–454.
33. HERAK, M. & BAHUN, S. (1963): Prilog stratigrafskoj analizi naslaga u području Slunj-Komesarac-Rakovica, Hrvatska (Ein Beitrag zur stratigraphischen Analyse der Ablagerungen im Gebiet Slunj-Komesarac-Rakovica, Kroatien). Geol. vjesnik, 16, 33–34.
34. HERAK, M. & KOCHANSKY-DEVIDÉ, V. (1963): Jungpalaeozoische Kalkalgen aus dem Bukk-Gebirge, Nordungarn, Geol. Hung., 28, 57–69.
35. HERAK, M. (1965): Comparative study of some Triassic Dasycladaceae in Yugoslavia (Komparativni studij nekih trijaskih dasikladaceja u Jugoslaviji). Geol. vjesnik, Zagreb 18/1, 3–34.
36. HERAK, M. (1965): Geologische Übersicht des Dinarischen Karstes. Naše jame, 7, 5–11.
37. HERAK, M. (1965): Naslage trijasa u okolici Sv. Roka u Lici (Triasablagerungen in der Umgebung von Sv. Rok in

- der Lika). *Acta geol.*, 5, (Prir. istraž. 35), Jugosl. akad. znan. i umjetn., 85–100.
38. HERAK, M., MAJCEN, Ž. & KOROLIJA, B. (1965): Prilog paleontološkoj dokumentaciji mezozoika u Samoborskom gorju i SI Žumberku (Beitrag zur palaontologischen Dokumentation des Mesozoikum im Samoborer Gebirge und dem NE Žumberak). *Geol. vjesnik*, 18/2, 325–331.
 39. HERAK, M. (1966): Die Kalkalgen in der Stratigraphie der Dinariden (Jungpalaozoikum und Mesozoikum). *Mitt. Geol. Ges.*, Wien, 58, 210–217.
 40. HERAK, M. & BOJANIĆ, L. (1966): Revizija trijasa u području rijeke Korane između Barilovića i Slunja (Revision der Triasablagerungen im Gebiet des Flusses Korana zwischen Barilović und Slunj). *Geol. vjesnik*, 19, 47–51.
 41. HERAK, M., BOJANIĆ, L., GUŠIĆ, I. & CUKOR, V. (1966): Paleontološka dokumentacija jure u području rijeke Korane između Barilovića i Slunja (Palaontologische Dokumentation der Juraablagerungen im Gebiet des Flusses Korana zwischen Barilović und Slunj). *Geol. vjesnik*, 19, 53–55.
 42. HERAK, M. (1967): Anisische Dasycladaceen vom Gosaukamm (Dachsteingebiet, Oesterreich). *Mitt. Geol. Ges.*, 59/2, 213–217.
 43. HERAK, M. (1967): Mesozoische Kalkalgen der Insel Chios (Griechenland) N. Jb. Geol. Palaeont. (Abh.), 129/1, 97–104.
 44. HERAK, M. (1967): Noviji rezultati istraživanja osnovnih stratigrafskih jedinica u Žumberku (Neue Ergebnisse der Untersuchungen von stratigraphischen Haupteinheiten in Žumberak, W Kroatien). *Geol. vjesnik*, 21, 111–116.
 45. HERAK, M., SOKAČ, B. & ŠČAVNIČAR, B. (1967): Correlation of the Triassic in SW Lika, Paklenica and Gorski Kotar, Croatia. *Geol. Sbornik Slov. akad. vied (Geol. Carpathica)*, 18/2, 189–202.
 46. HERAK, M. & ŠKALEC, D. (1967): Kalkalgen im Perm des Samoborer Gebirges (Vapnenačke alge u permu Samoborskog gorja). *Geol. vjesnik*, Zagreb (1966), 20, 37–39.
 47. HERAK, M., MIKULEC, S. & ŽUGAJ, M. (1968): Present and prospective water power development in the Karst of Yugoslavia. *World Power Conf. Moscow, Sec. C2*, paper 158, 1–29.
 48. HERAK, M. (1969): Current geologic problems of the Dinarides. 3. simp. Dinarske asocij., Zagreb, 1, 1–9.
 49. HERAK, M., BAHUN, S. & MAGDALENIĆ, A. (1969): Pozitivni i negativni utjecaji na razvoj krša u Hrvatskoj (Positive and negative influences on the development of the Karst in Croatia). *Krš, Jugosl., akad. znan. i umjetn.*, 6, 45–78.
 50. HERAK, M., MIKULEC, S., STOJIC, P. & TRIČKOVIĆ, T. (1970): Problems relative to the construction of dams and reservoirs in karst areas. 10. Congr. grands barrages Comm. Intern. Grands barrages., Montreal, 10, 899–908.
 51. HERAK, M., POLŠAK, A., GUŠIĆ, I. & BABIĆ, Lj. (1970): Dynamische und räumliche Sedimentationsbedingungen der mesozoischen Karbonatgesteine im Dinarischen Karstgebiet. *Verh. Geol. Bundesanst., Wien*, 4, 637–643.
 52. HERAK, M. (1971): Tektonska osnova hidrogeoloških pojava u okolici Skrada, Gorski kotar. *Ljetopis Jugosl. akad. znan. i umjetn.*, 75, 425–426.
 53. HERAK, M. (1971): Beitrag zur Rekonstruktion der orogenetischen Dynamik in der Dinariden Kroatiens. I simp. o orog. fazama u prostoru Evrope, Beograd-Bor (1970), Beograd, 35–40.
 54. HERAK, M. (1971): Razvoj hidrogeoloških koncepcija u Dinarskom kršu (Development of the geological theories on the Dinaric karst). *Zbornik radova Rud.-geol. fak.*, Beograd, 13, 227–239.
 55. HERAK, M. (1971): Neke specifičnosti Dinarskog krša (Some specific features of the Dinaric karst). *Simp. o zaštiti prirode u našem kršu (Zagreb, 1970)*, Jugosl. akad. znan. i umjetn., Zagreb, 25–34.
 56. HERAK, M. (1972): Karst of Yugoslavia. In: *Karst, Important karst regions of the Northern Hemisphere*, M. Herak & V. T. Stringfield, eds., Elsevier, Amsterdam, 25–83.
 57. HERAK, M. & STRINGFIELD, V. T. (1972): Historical review of hydrogeologic concepts. In: *Karst, Important karst regions of the Northern Hemisphere*, M. Herak & V. T. Stringfield, eds., Elsevier, Amsterdam, 19–24.
 58. HERAK, M. & STRINGFIELD, V. T. (1972): Conclusions. In: *Karst, Important karst regions of the Northern Hemisphere*, M. Herak & V. T. Stringfield, eds., Elsevier, Amsterdam, 507–512.
 59. HERAK, M. (1973): Novija istraživanja trijasa u Hrvatskoj (Neuere Untersuchungen der Trias Kroatiens). *Geologija*, Ljubljana, 16, 375–378.
 60. HERAK, M. (1973): Some tectonical problems of evaporitic area in the Dinarides of Croatia (Neki tektonski problemi pojasa s evaporitima u Dinaridima Hrvatske). *Geol. vjesnik*, Zagreb (1972), 26, 29–40.
 61. HERAK, M., MIKULEC, S., STOJIC, P. & TRIČKOVIĆ, T. (1973): Jugoslavenski nacionalni komitet za visoke brane. Sintetički izvještaj br. 10. Saopštenja 9. kongr. Jugosl. kom. za visoke brane, Zlatibor, 335–339.
 62. HERAK, M. (1974): Palaeogeographie und Fazies-Entwicklung während der Trias in den Dinariden Kroatiens. (Symp. Wien, 1973.: Die Stratigraphie der alpin-mediterr. Trias). *Oesterr. Akad. Wiss. Schriftenreihe der Erdwis. Komm.*, Wien, 2, 101–106.
 63. HERAK, M. (1974): Principi stratigrafske klasifikacije i terminologije (Principles of stratigraphic classification and terminology). *Nafta*, Zagreb, 25/5, 233–236.
 64. HERAK, M. & BAHUN, S., (eds.), (1974): Osnova hidrogeološke karte Dinarskog krša, 1 : 500 000, Geol.-paleont. zavod Prir.-matem. fakulteta, Zagreb.
 65. HERAK, M. (1975): Geotectonics and karst (*Geotektonika i krš*). *Acta geol.*, 8/21, (Prir. istraž. 41), Jugosl. akad. znan. i umjetn., Zagreb, 387–395.
 66. HERAK, M. (1975): Some comments on stratigraphic classification and terminology (Neke primjedbe uz stratigrafsku interpretaciju i terminologiju). *Geol. vjesnik*, Zagreb, 28, 55–63.
 67. HERAK, M. (1976): Geološki pristup tipizaciji terena za konsolidaciju. 1. jugosl. simp. za konsol. tla. *Zbornik referata*, Zagreb, 31–32.
 68. HERAK, M. (1976): Hidrogeološki aspekt Dinarskog krša. *Simp.: Ekološko valoriziranje primorskog krša*. Jugosl. akad. znan. i umjetn., Split, 59–62.
 69. HERAK, M. (1976): Jugoslavenski prilog poznavanju hidrogeologije i geomorfologije krša. *Hidrogeologija i vodno*

- bogatstvo krša. Zbornik Jugosl.-amer. simp., Dubrovnik (1975), Sarajevo, 1–24.
70. HERAK, M. (1976): The Yugoslav contribution to the knowledge of karst hydrogeology and geomorphology. Karst hydrology and water resources. Proceed. U.S.–Yugosl. Symp., Dubrovnik (1975), Water Res. Publ., Fort Collins, 1, 3–30.
 71. HERAK, M., MARINČIĆ, S. & POLŠAK, A. (1976): Geologija otoka Hvara (Geology of the Island of Hvar). Acta geol., 9/1, (Prir. istraž. 42), Jugosl. akad. znan. i umjetn., Zagreb, 1–14.
 72. HERAK, M. (1977): Tecto-genetic approach to the classification of karst terrains (Tektonogenetski pristup klasifikaciji krških terena). Krš Jugoslavije Jugosl. akad. znan. i umjetn., Zagreb, 9/4, 227–238.
 73. HERAK, M., KOCHANSKY-DEVIDÉ, V. & GUŠIĆ, I. (1977): The development of the dasyclad algae through the ages. In: Fossil Algae, E. Flugel, ed.: Springer Verlag, Berlin, 143–153.
 74. TRUMIĆ, A., MIKULEC, S. & HERAK, M. (1977): Water resources of the Dinaric karst as a factor of regional development in Yugoslavia. United Nations Water Conference, E/ Conf., Mar del Plata, 70/TP 54, 1–15.
 75. HERAK, M. (1979): Surface and subsurface morphology in the Molai area, Peloponnesus. Water Resources Development in the Molai Area, Laconia, Greece. FAO, UNDP-AGO:DP/Gre/, 77/023, Working Document, 1, IV+17 p.
 76. HERAK, M. (1979): On the origin of the nappe-units in the area Gorski Kotar – Ljubljansko Barje). Vesnik Zav. geol. geofiz. istraž. (A), Beograd, 37, 59–64.
 77. PANTIĆ, N., HERAK, M., DROVENIK, M. & VIDOVIĆ, M. (1979): Kadrovi i naučnoistraživački rad u geologiji SFRJ. 9. kongres geol. Jugosl., Sarajevo, 1978., Zbornik radova, Sarajevo, 2, 37–44.
 78. HERAK, M. (1980): O preduvjetima selekcije i specijalizacije znanstvenih radnika u geoznanostima. Zbornik simp. Znan. podmladak u samoupravnom društvu, Zagreb (1979), 37–40.
 79. HERAK, M. (1980): Sustav navlaka između Vrbovskog i Delnice u Gorskom Kotaru – Hrvatska (The nappe-system between Vrbovsko and Delnice in Gorski Kotar – Croatia). Acta geol., 10/2, (Prir. istraž. 44), Jugosl. akad. znan. i umjetn., Zagreb, 35–51.
 80. HERAK, M. (1980): Zur Ergänzung tektonischer Grundlagen der Westkroatischen Aussendinariden. Ann. Naturhistor. Mus., Wien, 83, 127–133.
 81. HERAK, M. & BAHUN, S. (1980): The role of the calcareous breccias (Jelar Formation) in the tectonic interpretation of the High karst zone of the Dinarides. Geol. vjesnik, Zagreb (1979), 31, 49–59.
 82. HERAK, M., JAŠAREVIĆ, I., BANJAD, I., ŠIKIĆ, V., VRK-LJAN, M., DUŠEK, A., VILJEVAC, Ž., KOVAČEVIĆ, S. & SVIBEN, D. (1980): Geološka i geotehnička istraživanja s projektnim rješenjem tunela kroz Gorski Kotar, 5. simp. Jugosl. društva za mehaniku stijena i podzemne radove, Split, 1, IV–1, 193–211.
 83. HERAK, M., MAGDALENIĆ, A. & BAHUN, S. (1981): Karst hydrogeology. Pollution and water resources, Columbia Univ. Seminar Series. G. J. Halasi-Kun, ed., New York, 14/1, 163–178.
 84. HERAK, M. (1982): Regionalnogeološka osnova Cvijićeve koncepcije krša (Regional-geologic basis of Cvijić concept of karst). Naučno delo Jovana Cvijića. Naučni skupovi Srp. akad. nauka i umetn., Beograd, 11/2, 81–86.
 85. HERAK, M. & POLŠAK, A. (1982): Geologija u Hrvatskoj 1977–1981. Geol. vjesnik, Zagreb, 35, 229–234.
 86. HERAK, M. (1983): Some ideas and dilemmas concerning the genesis and tectonics of the Adriatic and Peri-Adriatic areas. Guide Book 4th I. A. S. Regional Meeting (Split, 1983), Lj. Babić & V. Jelaska, eds., Zagreb, 7–11.
 87. HERAK, M., ŠČAVNIČAR, B., ŠUŠNJARA, A., ĐURĐANOVIĆ, Ž., KRYSŤYN, L. & GRUBER, B. (1983): The Lower Triassic of Muć, Proposal for a standard section of the European Upper Scythian. Oesterr. Akad. der Wiss., Schriftenreihe der Erdwiss. Kommissionen, Wien, 5, 93–106.
 88. HERAK, M. (1984): Effects of karst types on stream flow regimes. Guide to the hydrology of carbonate rocks, Ph. E. LaMoreaux, B. Morere Wilson & B. A. Memon, eds., Studies and Reports in Hydrology 41, Unesco, Paris, 152–156.
 89. HERAK, M. (1984): Geotektonski okvir speleogeneze (Geotectonical frame of speleogenesis). Zbornik Devetog speleol. kongresa Jugoslavije (Karlovac, 1984), Zagreb, 111–129.
 90. HERAK, M. (1984): Osvrt na glavne tektonogenetske stadije Dinarida (Review of the main tectogenetic stages of the Dinarides). Radovi Akad. nauka i umjetn. Bosne i Hercegovine, 75, Odjeljenje tehn. nauka, Sarajevo, 8, 81–88.
 91. HERAK, M. & BURDON, D. J. (1984): Outlets. Guide to the hydrology of carbonate rocks, Ph. E. LaMoreaux, B. Morere Wilson & B. A. Memon, eds., Studies and Reports in Hydrology, 41, Unesco, Paris, 138–141.
 92. HERAK, M. (1985): O odnosu jadranskih i dinarskih struktura (On the relation of the Adriatic and Dinaric structures). Rasprave Slov. akad. znan. in umetn. (IV razr.), Ljubljana, 26, 401–414.
 93. HERAK, M. (1985): Geološka karta Fužina i okolice (Geology of the environs of Fužine). U povodu 200. god. škole Fužine (1785–1985), 214–220 + 465.
 94. HERAK, M. (1986): A new concept of geotectonics of the Dinarides (Nova koncepcija geotektonike Dinarida). Acta geol., 16/1, (Prir. istraž. 53), Jugosl. akad. znan. i umjetn., Zagreb, 1–42.
 95. HERAK, M. (1986): Geotektonski okvir zaravni u kršu (Geotectonic frame of karst plains). Simp. o kraškom površju, Inšt. za raziskovanje krasa, Slov. akad. znan. in umetn. (Postojna, 1985), Acta carsologica, Ljubljana (1985–1986), 14/15, 13–18.
 96. HERAK, M. (1987): Relationship between Adriatic and Dinaric platforms. Intern. Symp. on the evolution of the karstic carbonate platform. Inst. di geol. e paleont. Univ. of Trieste (Abstracts), 37.
 97. HERAK, M. (1987): The correlation between the relief of the Mohorovičić discontinuity and the tectonic pattern of the Dinarides (Korelacija između reljefa Mohorovičićeva diskontinuiteta i tektonske građe Dinarida). Acta geol., 17/1–2, (Prir. istraž. 55), Jugosl. akad. znan. i umjetn., Zagreb, 5–11.
 98. HERAK, M. (1987): Trijas Dinarida na prijelazu između hercinske i alpinske orogeneze (The Triassic of the Dinarides, the linking period of Hercynian and Alpine orogenesis).

Zbornik radova posvećen akademiku Z. Bešiću, Crnogorska akad. nauka i umjetn., Titograd, 33–38.

99. HERAK, M. & BUKOVAC, J. (1988): Tektonsko okno Duralije u Žumberku (Tectonic window of Duralije in Žumberak). Geol. vjesnik, Zagreb, 41, 231–236.
100. HERAK, M. (1989): Relationship between Adriatic and Dinaric carbonate platforms. Mem. Soc. Geol. It., Roma (1987), 289–293.
101. HERAK, M. (1990): Geotectonics, karst morphology, and environmental problems. Environ. Geol. Water Sci., New York, 14/3, 59–60.
102. HERAK, M., JAMIČIĆ, D., ŠIMUNIĆ, A. & BUKOVAC, J. (1990): The northern boundary of the Dinarides (Sjeverna granica Dinarida). Acta geol., 20/1, (Prir. istraž. 60), Jugosl. akad. znan. i umjetn., Zagreb, 5–27.
103. HERAK, M. (1991): Dinaridi – Mobilistički osvrt na genezu i strukturu (Dinarides – Mobilistic view of the genesis and structure). Acta geol., 21/2, (Prirodosl. istraž. 63), Hrv. akad. znan. i umjetn., Zagreb, 35–117.
104. HERAK, M. (1991): Pre-Neogene tectonic pattern of the margin of the Pannonian Depression. Serb. acad. of sci and arts, Acad. conferences, 62 (Dept. of nat. and mathem. sci., 4), Beograd, 9–14.
105. HERAK, M. (1993): Additional considerations on the Epiadriaticum, Outer Dinarides. Geol. Croat., Zagreb, 46/1, 165–168.
106. HERAK, M. (1994): Geotektonika i geotehnika (Geotectonics and geotechnics). Saopćenja 1 Znanstveno-stručnog savjetovanja Geotehnika prometnih građevina, Novigrad (1994), Zagreb, 27–36.
107. HERAK, M. & TOMIĆ, V. (1995): Continental subduction tectonics in the High Karst Dinarides of Western Croatia. Geol. Croat., Zagreb, 48/2, 161–166.
108. HERAK, M. & JURAIČIĆ, M. (1996): Geological basis of environment protection in Croatia. Pollution and water resources, Columbia Univ. Seminar Series, G. J. Halasi-Kun, ed., Centre for reg. studies, Pecs, Hung. acad. sci. 28 (1994), 233–259.
109. HERAK, M. (1999): Tectonic Interrelation of the Dinarides and the Southern Alps. Geol. Croat., Zagreb, 52/1, 83–98.
110. HERAK, M. (2012): A generalized „southern“ review of the tectogenetic relationships of the „Dinarides“ and „Alpides“. Geol. Croat., Zagreb, 65/Suppl. 1, 3–35.
5. HERAK, M. (1954): Izvještaj o geološkim istraživanjima u Samoborskoj okolini u godini 1952. Ljetopis Jugosl. akad. znan. i umjetn., Zagreb (1951–1952), 59, 84–86.
6. HERAK, M. (1954): Izvještaj o geološkom istraživanju Samoborske gore u godini 1951. Ljetopis Jugosl. akad. znan. i umjetn., Zagreb (1951–1952), 59, 81–83.
7. HERAK, M. (1955): Geologija i mineralogija u srednjoj školi [Geology and mineralogy in secondary school – in Croatian]. Školske novine, Zagreb, 6/9, 2.
8. HERAK, M. (1955): Geološka istraživanja u području Samoborske gore [Geological investigations in the area of Samoborska gora – in Croatian]. Ljetopis Jugosl. akad. znan. i umjetn., Zagreb (1953), 60, 279–280.
9. HERAK, M. (1959): Geologija [Geology – in Croatian]. Šumarska enciklopedija, Leksikogr. zavod FNRJ, Zagreb, 1, 437–440.
10. HERAK, M. (1960): Hrvatska – Geološki i petrografski sastav tla [Geologic and petrographic composition of soil – in Croatian]. Enciklopedija Jugoslavije, Zagreb, 124–129.
11. HERAK, M. (1962): Dr Josip Poljak – in memoriam [Dr Josip Poljak – obituary – in Croatian]. Priroda, Hrv. prir. društvo, Zagreb, 49/8, 256.
12. HERAK, M. (1962): News reports. Yugoslavia. Micropaleontology, New York, 8/2, 287–288.
13. HERAK, M. (1962): Problem geoloških kadrova [The problem of geological staff – in Croatian]. Referati 5. sav. geol. FNR Jugosl., Beograd, 1–12.
14. HERAK, M. (1962): Razvoj geološke nauke u razdoblju od 1951–1961 [The development of geological science in the period 1951–1961 – in Croatian]. Geol. vjesnik, Zagreb (1961), 15, 11–18.
15. HERAK, M. (1962): Vjetar kao geološki faktor [Wind as a geological factor – in Croatian]. Priroda, Zagreb, 49/8, 230–234.
16. HERAK, M. (1963): Krš [Karst – in Croatian]. Šumarska enciklopedija, Jugosl. leksikogr. zavod, Zagreb, 2, 17–20.
17. HERAK, M. (1963): News reports. Yugoslavia. Micropaleontology, New York, 9/3, 358–359.
18. HERAK, M. (1965): Akademik Marijan Salopek [Academician Marijan Salopek – in Croatian]. Acta geol., 5, (Prir. istraž. 35), Jugosl. akad. znan. i umjetn., Zagreb, 7–11.
19. HERAK, M. (1965): Geološka povijest dinarskog krša [Geologic history of Dinaric karst – in Croatian]. Priroda, Zagreb, 52/5–6, 129–134.
20. HERAK, M. (1965): News reports. Yugoslavia. Micropaleontology, New York, 11/3, 380.
21. HERAK, M. (1965): Paleontologija Hrvatske [Croatian paleontology – in Croatian]. Enciklop. Jugosl., Zagreb, 6, 417.
22. HERAK, M. (1966): Geološko istraživanje Žumberka [Geologic investigation of Žumberak – in Croatian]. Ljetopis Jugosl. akad. znan. i umjetn., Zagreb (1964), 71, 263–265.
23. HERAK, M. (1968): News reports. Yugoslavia. Micropaleontology, New York, 14/2, 262–263.
24. HERAK, M. (1968): Stanje i problemi razvoja naučnih istraživanja u paleontologiji, stratigrafiji, inženjerskog geologiji i hidrogeologiji [Condition and problems of development of scientific research in paleontology, stratigraphy, engineer-

Professional and other papers

1. HERAK, M. (1944): Što je paleobiologija? [What is Paleobiology? – in Croatian]. Priroda, Zagreb, 34/7–10, 112–116.
2. HERAK, M. (1944): Iz povijesti Zemlje i života [From the history of Earth and life – in Croatian]. Znanje i radost. Hrv. izd. bibliogr. zavod, Zagreb, 3, 160–170.
3. HERAK, M. (1944): Otkriće krapinskog pračovjeka. [Discovery of the Krapina Neanderthal – in Croatian]. Znanje i radost. Hrv. izd. bibliogr. zavod, Zagreb, 3, 174–177.
4. HERAK, M. (1947): Zemljina kora i život na njoj izvrgnuti su neprestanim promjenama [Earth's crust and life on it are in constant change – in Croatian]. Zadružni kalendar, Zagreb, 17, 257–262.

- ing geology and hydrogeology – in Croatian].– Sav. savj. koord. naučn. del. (Studije i prikazi Sp. 9), Tehničke nauke Ser. C/3, Beograd, 23–24.
25. HERAK, M. (1968): S kompasom i čekićem po svijetu, I. dio [*With a compass and a hammer in the world, Part I* – in Croatian].– Žumberačke novine, Zagreb, 3/10, 10.
 26. HERAK, M. (1968): S kompasom i čekićem po svijetu, II. dio [*With a compass and a hammer in the world, Part II* – in Croatian].– Žumberačke novine, Zagreb, 3/12, 7.
 27. HERAK, M. (1969): Process report for the International hydrological Working group on the hydrology of the carbonate rocks of the Mediterranean Basin., FAO, Rome, 1–32.
 28. HERAK, M. (1969): Sveučilište i društvena praksa [*University and social practice* – in Croatian].– Spomenica Sveučilišta, Zagreb, 1, 541–548.
 29. HERAK, M. (1969): Znanstvena istraživanja u reformiranom Sveučilištu [*Scientific research in the Reformed University* – in Croatian].– Simp. Inst. za društ. istraž. Sveuč., Zagreb, 1, 1–6.
 30. HERAK, M. (1969): S kompasom i čekićem po svijetu, III. dio [*With a compass and a hammer in the world, Part III* – in Croatian].– Žumberačke novine, Zagreb, 4/13, 9.
 31. HERAK, M. (1969): S kompasom i čekićem po svijetu, IV. dio [*With a compass and a hammer in the world, Part IV* – in Croatian].– Žumberačke novine, 4/15, 6.
 32. HERAK, M. (1969): S kompasom i čekićem po svijetu, V. dio [*With a compass and a hammer in the world, Part V* – in Croatian].– Žumberačke novine, Zagreb, 4/16, 9.
 33. HERAK, M., MIKULEC, S. & ŽUGAJ, M. (1969): Mogućnosti intenzivnijeg korišćenja vodnih snaga krša. 1. kongr. o vodama Jugosl., Zagreb, 1, 421–425.
 34. GRUPA AUTORA (1969): Geologija i hidrogeologija sliva rijeke Save. Jugoslavija, Regulacija i uređenje Save, Zagreb, 65 p.
 35. HERAK, M. (1970): Dokumenti geološke prošlosti [*Documents of geological history* – in Croatian].– Encyclopedia moderna, Jugosl. akad. znan. i umjetn., Zagreb, 13, 67–70.
 36. HERAK, M. (1970): S kompasom i čekićem po svijetu, VI. dio [*With a compass and a hammer in the world, Part VI* – in Croatian].– Žumberačke novine, Zagreb, 5/18, 6.
 37. HERAK, M. (1970): Naše rodno tlo [*Our native soil* – in Croatian].– Encyclopedia moderna, Jugosl. akad. znan. i umjetn., Zagreb, 13, 66.
 38. HERAK, M. (1971): Reforma organizacije postdiplomskog studija i znanstvenih istraživanja [*Reform of the organization of postgraduate studies and scientific research* – in Croatian].– In: Za reformu Hrv. Sveuč. Savez stud. Hrvatske, Zagreb, 19–21.
 39. HERAK, M. (1971): Tragom pradaвне prošlosti žumberačkog tla [*Following the ancient past Žumberak soil* – in Croatian].– In: Žumberak u riječi i slici. Kult.-prosvj. društvo „Žumberak“, Zagreb, 10–15.
 40. HERAK, M. (1971): Znanstveni rad i poslijediplomski studij tla [*Scientific work and postgraduate studies* – in Croatian].– In: Za reformu Hrv. sveučilišta, Savez stud. Hrvatske, Zagreb, 22–30.
 41. HERAK, M. (1972): Regional geologic approach to the investigation of groundwaters in karst areas.– 24. Intern. Geol. Congr., Montreal (Abstracts), 342.
 42. GRUPA AUTORA (1972): Glossary and multilingual equivalents of karst terms.– Unesco-FAO, Paris, II+72.
 43. HERAK, M. (1973): Pregled geološke građe Like [*Review of geological structure of Lika* – in Croatian].– Zbornik histor. arhiva, 5, (Lika u prošlosti i sadašnjosti), Karlovac, 79–85.
 44. HERAK, M. (1973): Susreti u kršu. Osvrt na dosadašnji rad i perspektive Posebna izd. Srp. akad. nauka i umetn. Spomenica M. T. Lukoviću, 60, Beograd, 23–25.
 45. HERAK, M. (1973): Milan Luković (1889–1972) [*Milan Luković (1889–1972)* – in Croatian].– Ljetopis Jugosl. akad. znan. i umjetn., Zagreb, 77, 239–240.
 46. HERAK, M. (1973): Geologija. Struktura, dinamika i razvoj zemlje, II izd. [*Geology – Structure, dynamics and history of Earth, II edition* – in Croatian.].– Školska knjiga, Zagreb, XII+465 p.
 47. GRUPA AUTORA (1973): Karst hydrology in eight Circum-Mediterranean countries. A review of the situation in 1969–1971 made by the Working group on the hydrology of carbonate rocks of the Mediterranean Basin. First preliminary edition., Unesco-FAO, Rome, V+21 p.
 48. HERAK, M., MAGAŠ, B. & SARIĆ, A. (1973): Hidrogeološka, geomorfološka i hidrotehnička bibliografija krša Jugoslavije (1689–1972), Vodopr. problemi krša. Bilten Poslovne zajednice izuč. vodopr. probl. krša, Sarajevo, 4, 209 p.
 49. HERAK, M. (1974): Osvrt na dosadašnji rad i perspektive [*Overview of the former work and perspectives* – in Croatian].– Spomenica Prir.-matem. fak., Zagreb, 176–177.
 50. HERAK, M. (1975): (Opening speech). 2. znanstv. skup Sekcije za primjenu geol., geofiz., geokem. Znanstv. savjeta za naftu Jugosl. akad. znan. i umjetn., Zagreb, 13–15.
 51. HERAK, M. (1975): C. A. Burk & C. L. Drake, eds.: The geology of continental margins (review). Springer Verlag, Berlin-Heidelberg-New York, 1974. Geol. vjesnik, Zagreb, 28, 464–472.
 52. (B. K. interview M. HERAKA) (1975): Do odgovora nisam došao. NIN, broj 1281, Beograd, 12–13.
 53. GRUPA AUTORA (1975): Krška hidrologija u osam zemalja na obodu Sredozemlja (preveo M. Herak). Poslovna zajednica za izučavanje vodoprivr. problema krša. Izdanja, Sarajevo, 14, 43 p.
 54. HERAK, M. (1976): Kako jednoznačno interpretirati fosile u evoluciji i stratigrafiji? Proslava 25. obl. djelatn. Hrv. geol. društva (sažeci referata), Zagreb, 3.
 55. HERAK, M. (1976): O geološkoj prošlosti ozaljskog kraja. Kaj, Zagreb, 9–11, 172–174.
 56. HERAK, M. (1976): Cilj, namjena i sadržaj geološke karte SFRJ 1:50 000. Geol. vjesnik, Zagreb, 29, 363–374.
 57. HERAK, M. (1976): U potrazi za silama Zemljine evolucije. Priroda, 65/3, Zagreb, 65–68.
 58. HERAK, M., MAGAŠ, B., SARIĆ, A. & HABE, F. (1976): Prilog bibliografiji krša Jugoslavije 1666–1974. (Contribution to the bibliography of karst of Yugoslavia 1666–1974).– Krš Jugoslavije Jugosl. akad. znan. i umjetn., Zagreb, 9/3, 81–149.
 59. PLENIČAR, M., PREMURU, U. & HERAK, M. (1976): Osnovna geološka karta Jugoslavije, list Novo Mesto 1:100 000,

- L 33–79. Geološki zavod, Ljubljana (1963–1969). Savezni geološki zavod, Beograd.
60. HERAK, M. (1977): Tecto-genetic approach to the classification of karst terrains. Papers 3rd Intern. Symp. Undergr. water tracing (1976), Ljubljana (Abstracts), 321.
 61. HERAK, M., POLŠAK, A. & PRELOGOVIĆ, E. (1978): Razvoj geologije u SR Hrvatskoj od 1951–1976. god.– Geol. vjesnik, 30/2, 611–620.
 62. HERAK, M. (1979): Eduard Roch (1901–1975).– Ljetopis Jugosl. akad. znan. i umjetn., Zagreb (1975), 79, 699.
 63. HERAK, M. (1981): Inženjerskogeološka djelatnost akademika Luke Marića. Spomenica preminulim akademikima, Jugosl. akad. znan. i umjetn., Zagreb, 10, 34–36.
 64. HERAK, M. (1981): Uz 45-obljetnicu znanstvenog i nastavnog rada Vande Kochansky-Devidé. Geol. vjesnik, Zagreb, 34, 151–153.
 65. HERAK, M. (1982): Ercegovac, M.: Mikropaleontologija-Mikropaleobotanika. Naučna knjiga, 323 p., 1981. (recenzija).– Geol. vjesnik, Zagreb, 35, 286–287.
 66. HERAK, M. (1984): O nekim nedorečenostima u rasprava o znanosti i nas. Predavanja Jugosl. akad. znan. i umjetn., Zagreb, 52, 38 p.
 67. HERAK, M. (1985): Geologija u kulturnom i privrednom razvitku Hrvatske. Scientia Yugoslavica, Zagreb, 11 (1–2), 57–63.
 68. HERAK, M. (1986): (Uvodna riječ). Vale Vouk 1886–1986, Spomenica preminulim akademikima, Jugosl. akad. znan. i umjetn., Zagreb, 35, 9.
 69. HERAK, M. (1986): Mohorovičićev diskontinuitet u geoznamostima. Priroda 75, Hrvat. priir. društvo, Zagreb, 106–107.
 70. HERAK, M. (1986): Geologija u zatvorenom krugu, Vjesnik, Zagreb, od 11. 01. 1986. Panorama subotom, 8.
 71. HERAK, M., PANTIĆ, N., ATANACKOVIĆ, M., KARAMATA, S., CVETKOVIĆ, S., BOŠKOVIĆ, D., BUSER, S., IVKOVIĆ, B., PRUHTI, V., KALEZIĆ, M. & PETROVSKI, K. (1986): Kadrovi i naučnoistraživački rad u geologiji SFRJ. 11. kongr. geologa Jugosl., Tara, 1, 125–158.
 72. HERAK, M. (1987): (Uvodna riječ), Dragutin Gorjanović Kramberger 1856–1936. Spomenica preminulim akademikima Jugosl. akad. znan. i umjetn., Zagreb, 42, 9–11.
 73. HERAK, M. (1988): Geografija i Jugoslavenska akademija. Geogr. glasnik, Zagreb, 50, 129.
 74. HERAK, M. (1988): Struktura i dinamika Zemlje. Atlas svijeta.– Jugosl. leksikogr. zavod, Zagreb, 12–18.
 75. HERAK, M. (1988): O našem geotektonskom naslijeđu (On our geotectonic heritage). Naučne komunikacije Akad. Nauka i umjetn. Bosne i Hercegovine (Odjeljenje tehn. nauka), Sarajevo, 16, 5–15.
 76. HERAK, M. (1988): In memoriam: Akademik Josip Roglić (1906–1987).– Geografski glasnik, Zagreb, 50, 129.
 77. HERAK, M. (1988): (Pozdrav). Zbornik skupa Ornitologija u Hrvatskoj. Jugosl. akad. znan. i umjetn., Razred za priir. znan., Zagreb, 1.
 78. HERAK, M. (1989): Sjećanje na dan oproštaja od akademika Josipa Roglića. Spomenica preminulim akademikima Jugosl. akad. znan. i umjetn., Zagreb, 51, 9–11.
 79. HERAK, M. (1989): Uloga Instituta za geološka istraživanja u razvoju i primjeni geoloških znanosti. Geol. vjesnik, 42, XIX–XXI.
 80. HERAK, M. (1990): Geologija. V izd., Školska knjiga, Zagreb, XV+433 p.
 81. HERAK, M. (1990): Jugoslavija – geološki i petrografski sastav. Enciklop. Jugoslavije, Jugosl. leksikogr. zavod, Zagreb, 6, 167–171.
 82. HERAK, M. (1991): Vanda Kochansky-Devidé (1915–1990). Ljetopis Jugosl. akad. znan. i umjetn., Zagreb, 94, 598–600.
 83. HERAK, M. (1991): Mirko Malez (1924–1990). Ljetopis Jugosl. akad. znan. i umjetn., Zagreb, 94, 601–602.
 84. HERAK, M. (1991): U spomen Vandi Kochansky – Devidé. Spomenica preminulim akademikima Jugosl. akad. znan. i umjetn., Zagreb, 60, 10–12.
 85. HERAK, M. (1991): Brusina i Jugoslavenska akademija. Zbornik Znan. skupa, Zadar (1989), 9–10.
 86. HERAK, M. (1991): Govor na predstavljanju knjige J. Bablanića „Brusina prirodoslovac”.– Zbornik znan. skupa, Zadar (1989), 217–218.
 87. HERAK, M. (1992): Sjećanje na akademika Mirka Maleza. Spomenica preminulim akademikima Hrv. akad. znan. i umjetn., Zagreb, 66, 9–11.
 88. HERAK, M. (1993): Geotektonika i geomorfologija. Geogr. horizonti, Zagreb, 39, 2, 5–9.
 89. HERAK, M. (1993): Gjuro Pilar (1846–1893), uz stotu obljetnicu smrti.– Vjesnik Hrv. akad. znan. i umjetn., Zagreb, 1–3, 223–226.
 90. HERAK, M. (1994): Pozdravni govor. Zbornik znanstvenog skupa Gjuro Pilar 1846–1893, Pos. izd. Hrv. akad. znan. i umjetn., Zagreb, 3.
 91. HERAK, M. (1994): Pilarovo poimanje geodinamike [*Pilars' conception of geodynamics – in Croatian*].– Zbornik znanstvenog skupa Gjuro Pilar 1846–1893, Pos. izd. Hrv. akad. znan. i umjetn., Zagreb, 73–84.
 92. SAKAČ, K. & HERAK, M. (1994): Znanstveni rad i životni put Gjura Pilara (Scientific work and life itinerary of Gjuro Pilar). Zbornik znanstvenog skupa Gjuro Pilar 1846–1893, Pos. izd. Hrv. akad. znan. i umjetn., Zagreb, 5–20.
 93. HERAK, M. (1995): Konceptijski doseg geologije Hrvatske (Conceptual scope of the geology of Croatia). Zbornik radova Prvog Hrvatskog geološkog kongresa (Opatija), Zagreb, 25–33.
 94. HERAK, M. (1995): Znanstveni skup o Gjuri Pilaru. Vjesnik Hrv. akad. znan. i umjetn., Zagreb, 4/1–3, 166–167.
 95. HERAK, M. (1996): Geologija (Hrvatske). Hrv. leksikon, Zagreb, I, 379.
 96. HERAK, M. (1996): Geološka građa (Hrvatske). Hrv. leksikon, Zagreb, I, 379.
 97. HERAK, M. (1996): Gjuro Pilar prvi rektor prirodoslovac na Zagrebačkom sveučilištu. Hrv. slovo, Društvo hrv. knjiž., Zagreb, II/57, 30 (prvi dio); II/58, 30 (drugi dio).
 98. GUŠIĆ, I. & HERAK, M. (1996): Regionalna geologija s paleontologijom (sažetak).– Simpozij o fundamentalnim istraživanjima, Vjesnik Hrv. akad. znan. i umjetn., Zagreb, 5/1–3, 58.
 99. HERAK, M. (1997): Helmuth Zapfe (1913.–1996.).– Ljetopis Hrv. akad. znan. i umjetn., Zagreb, 100, 330–331.

100. HERAK, M. (1997): Naš odnos prema znanosti.– Rugjer, Zagreb, 8, 13.
101. HERAK, M. (1997): Croatia.– Encycl. of European and Asian regional geology (E. M. Moores and W. Fairbridge, eds.), Chapman and Hall, London, 155–160.
102. GUŠIĆ, I. & HERAK, M. (1997): Regionalna geologija s paleontologijom – u nas i u svijetu (Regional geology and paleontology – in Croatia and abroad).– Zbornik radova simp. o fundamentalnim istraživanjima, Hrv. akad. znan. i umjetn., Zagreb, 199–206.
103. HERAK, M (1998): Vrednovanje znanosti iz aspekta geologije.– Zbornici 2: Vidljiva i nevidljiva akademija (D. Polšek, ed.). Inst. Ivo Pilar, Zagreb, 129–136.
104. HERAK, M. (2001): Razvoj hrvatske geologije 1930.–1950.– Prirodoslovlje, Matica Hrvatska, Zagreb, 279–293.
105. HERAK, M. (2001): Razvoj geologije 1930.–1950.– Prirodoslovlje, Matica hrvatska, Zagreb, 13–17 1(2), 279–293.
106. HERAK, M (2006): Ljudevit Vukotinović između geognozije i geologije.– Zbornik znanstvenog skupa o Ljudevitu Vukotinoviću Farkašu (Zagreb, 2003.), 59–68.

Available online October 31, 2015