

CARBONATE CONCRETIONS: A BIBLIOGRAPHY

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While preparing a "Rock Chips" column for "Rocks & Minerals" -- published in two parts (Part 1, **74**:266-269; Part 2, **74**:335-340 - both 1999) -- my interest led me to make an extensive literature search, which included my scanning more than 700 articles and abstracts. The resulting bibliography, given here, does NOT include publications that post-date April, 1997 -- the date the manuscript for the column was accepted for publication -- AND earlier publications about concretions that I did not find. Nonetheless, it seems worthwhile to make this bibliography available -- especially because reprints and Xerox copies of many of these publications, several of which are from rather old and/or relatively obscure publications, are now on file in T-Rex Resources office building in Mt. Pleasant, Michigan, AND I may be able to arrange to provide copies of such articles (*etc.*) to anyone who would like to see copies of the publications in that file that are not readily available elsewhere. My apologies for any errors or shortcomings. My contact is email: r.v.dietrich@cmich.edu.

First, for what it may be worth, an introduction to the previously alluded to, forthcoming "Rock Chips" column, which has a question and answer format, follows:

QUESTION #35: Why is a "hardrock petrologist" like you reviewing the literature about carbonate concretions? (From two former students, ... consulting geologists ... [posed] after reading my last Rock Chips column.)

ANSWER: Carbonate concretions are of great interest and importance to both geologists

and "rockhounds." Indeed, as a *group* these concretions embody each of the three main subjects covered in *ROCKS & MINERALS* -- *i.e.*, they are rocks; they contain many minerals (a few that are rare, others that comprise fine cabinet specimens); [and] they contain fossils -- including representatives of essentially all phyla and phyta (as well as artifacts). *In addition, carbonate concretions have widespread geological and geographical distributions* -- geologically, they occur in rocks or deposits representing many diverse environments and in rocks of all geological periods from at least middle Precambrian to present; geographically, they have been recorded from many localities throughout the world (*e.g.*, in all but 9 states of United States; all but two provinces of Canada; most European countries; on each of the other six continents; on oceanic islands, such as Greenland, Madagascar, and New Zealand; and from beneath the seas -- *e.g.*, on the Norwegian continental shelf and in bottom sediments taken from Atlantic and Pacific oceans).

[View](#) a few illustrations of Concretions

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David Ginsburg, Reference Librarian at Central Michigan University, kindly sought out the correct, complete citations for several of the references for which I had only partial information; this was necessary for me to get the articles (*etc.*) via interlibrary loans. Although this list of references includes virtually all of the articles (abstracts, *etc.*) I scanned, unfortunately, it includes errors -- particularly so far as spacing, punctuation, and use of different type faces. Most of these errors reflect the fact that I used WordStar 6.0 while compiling the list. David Matty of CMU's Department of Geology transferred that version into the current form. Emmett Mason, Professor Emeritus (CMU), created this web page. I gratefully acknowledge each of these contributions.

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