1023-05-554   **Guantao Chen*** (`gchen@gsu.edu`), Dept. of Math. and Stat., Georgia State University, Atlanta, GA, **Zhicheng Gao**, School of Math and Stat, Carleton University, Ottawa, Ontario, **Xingxing Yu**, School of Mathematics, Georgia Institute of Technology, Atlanta, GA , and **Wenan Zang**, Department of Mathematics, University of Hong Kong, Hong Kong. *Circumferences of 3-connected graphs with bounded degrees.* Preliminary report.

In 1993 Jackson and Wormald conjectured that if G is a 3-connected n-vertex graph with maximum degree $d \geq 4$ then G has a cycle of length $\Omega(n^{\log_{d-1} 2})$. We show that there exists a positive integer d_0 such that the conjecture is true for all $d \geq d_0$. (Received September 18, 2006)