LEWIS AND CLARK COLLEGE
Department of Mathematical Sciences

PUZZLE OF THE WEEK (9/14/2016 - 9/20/2016)

Find the largest integer n such that 2^n divides the product

$$2017 \cdot 2018 \cdot 2019 \cdot ... \cdot 4031 \cdot 4032.$$

Justify your claim.

- Correct solutions of the Puzzle of the Week #2 were submitted by David Lovitz, Fisher Ng, Jack Reamy and a mystery LC student whose email goes by Crms. Congratulations!

- One possible solution of the Puzzle #2 is posted online. (Look for the Puzzle of the Week announcements on the departmental web-page.)

- Solvers of this week's puzzle should include their name, address, and status at the College. Solutions should be submitted to **Iva Stavrov** in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on **Tuesday, September 20th 2016**.