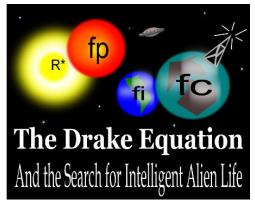
IEEE Southeastern Michigan Presents:

The Drake Equation: A Documentary





At Glance

• When:

Date: May 24th, 2024

Time: 1600 – 1730 Hrs

(EST/EDT)

• Where:

Online via Webex (to be shared only after you have a confirmed registration)

Audience: OPEN to ALL*

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Chapter

Recently, as part of an innovative and fresh approach, i.e., a non-traditional meeting event: we presented video documentaries. This was very warmly received. So, we decided to continue the good work. We proudly present the Documentary: *The Search for Life: The Drake Equation*

Summary: A look at the Drake equation, developed by Dr. Frank Drake as a way to think about the number of extraterrestrial civilizations in our galaxy that could exist and communicate with us

The Drake equation is:^[1]

 $N = R_* \cdot f_{
m p} \cdot n_{
m e} \cdot f_{
m l} \cdot f_{
m i} \cdot f_{
m c} \cdot L$

 \bullet N = the number of civilizations in the Milky Way galaxy with which communication might be possible (i.e. which are on the current past light cone);

and

- R_st = the average rate of star formation in our Galaxy
- f_{p} = the fraction of those stars that have planets
- ullet $n_{
 m e}$ = the average number of planets that can potentially support life per star that has planets.
- f_1 = the fraction of planets that could support life that actually develop life at some point.
- $f_{
 m i}$ = the fraction of planets with life that go on to develop intelligent life (civilizations).
- f_{C} = the fraction of civilizations that develop a technology that releases detectable signs of their existence into space
- L = the length of time for which such civilizations release detectable signals into space. [6][7]

*Pre-Registration Required!

https://events.vtools.ieee.org/m/384610





