## **Kinetics & Reactor Design 2: Liquid Reactors**

Kinetics 1

Continuing Ed workshop by Richard Skeirik, PE

## **Kinetics Exercise**

## An irreversible reaction network:

In a liquid mixture, A and B react to form C; C also reacts with A to form D. Write out the two reactions (in arrow form). Use  $k_1$  and  $k_2$  for the rate constant names.

[Rxn 1]

[Rxn 2]

These two reactions are elementary. Can you say why?

Write the kinetic rate expression for each component

r<sub>A</sub> =

r<sub>B</sub>=

r<sub>c</sub> =

r<sub>D</sub> =

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