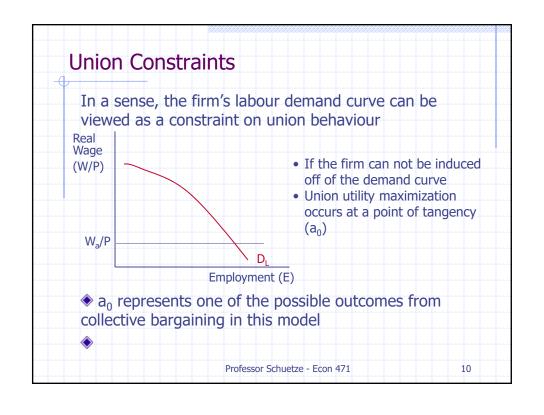
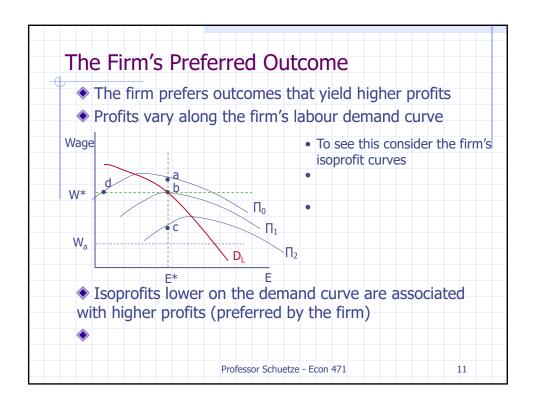
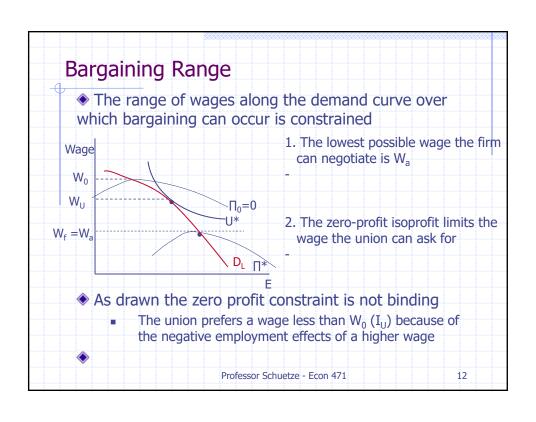


# Union Constraints The "choice" of wages and employment by the union is constrained by the firm's behaviour Assume that the firm is dealing with a profitmaximizing competitive firm Also assume (initially) that the determination of wages and employment is carried out in two stages The firm need only to look to its labour demand curve which specifies the profit maximizing employment level at each wage Professor Schuetze - Econ 471 9





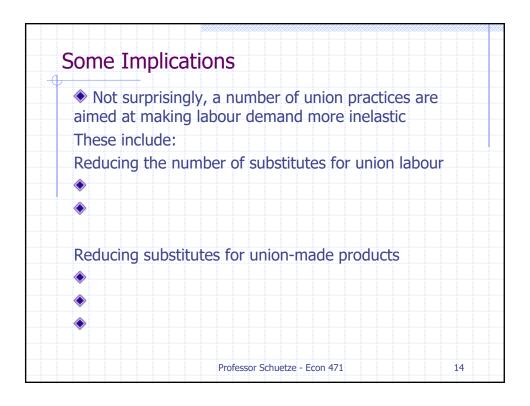


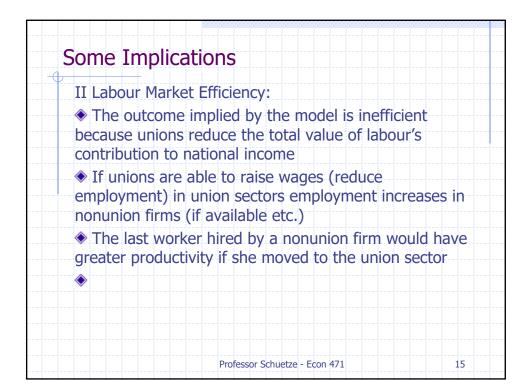
### Some Implications **I. Elasticity of Demand:**

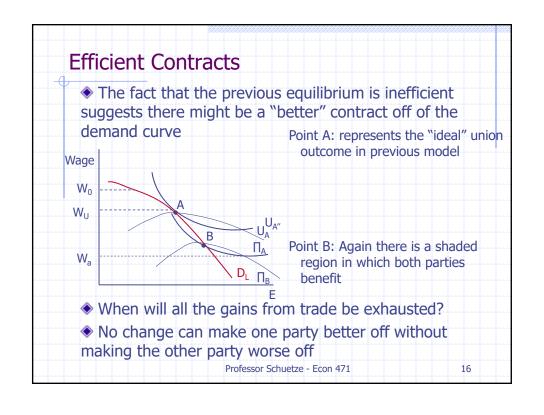
- In the absence of the union the competitive wage is given by Wa
- ◆ Thus, if the union has any bargaining power wages will be higher and employment lower with the union
- Because of this the likelihood of a successful union drive and union utility increase when the labour demand curve is inelastic

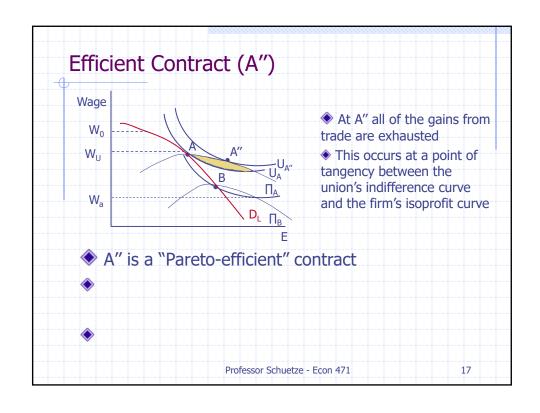
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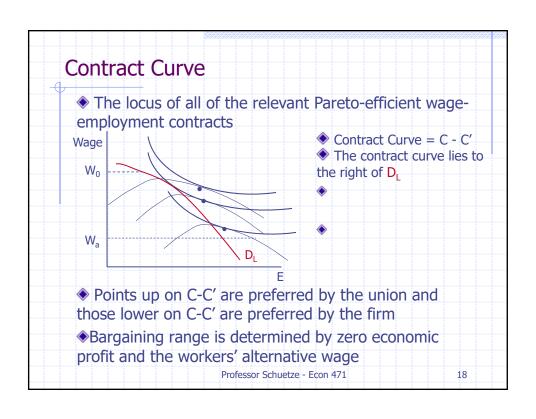
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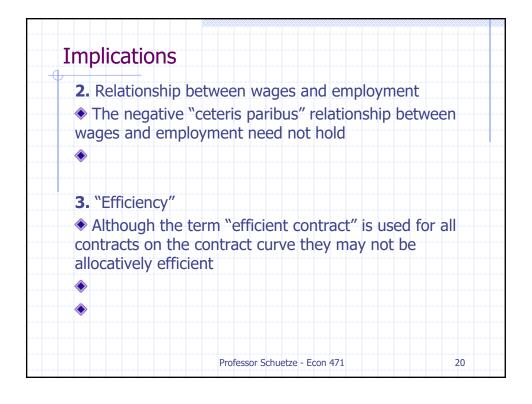




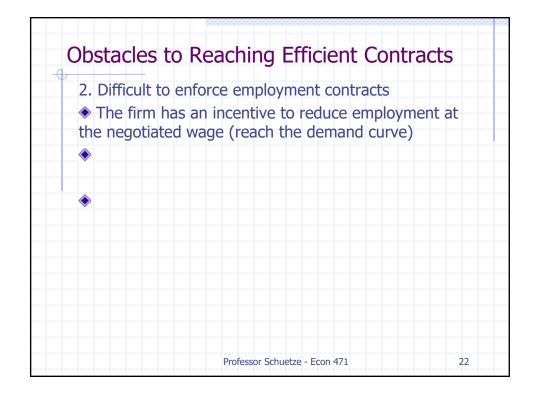




# Implications 1. Featherbedding Outcomes on the contract curve contain higher levels of employment than the firm would choose on its own The firm is overstaffed The firm and the union will be forced to negotiate "make-work" or featherbedding practices to share tasks Professor Schuetze - Econ 471 19



# Obstacles to Reaching Efficient Contracts There are obvious incentives for firms and unions to reach an agreement on the contract curve These agreements may, however, be difficult to reach Why? Imperfect Information May not realize that there are gains to be made if there is not full information about willingness/ability to trade Professor Schuetze - Econ 471 21



### **Bargaining Theory**

- The union models we have examined so far suggest that there is a range of possible outcomes
- Some of these outcomes are more preferred by the firm and some are better for the union

Bargaining Theory is used to:

- 1.
- 2.
- The basic idea is that the union and firm will engage in strategic behaviour (like a card game or chess)
- Both parties conjecture about the potential actions of their collective bargaining partner

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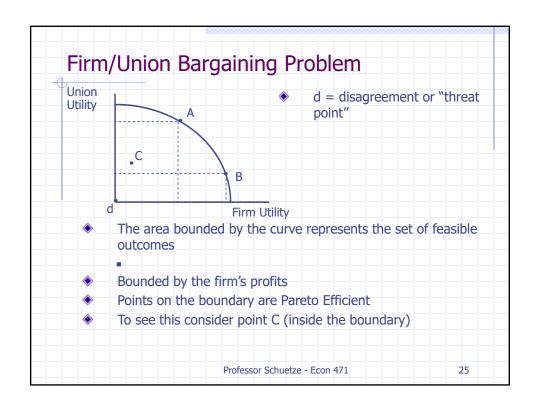
### The Basic Bargaining Problem

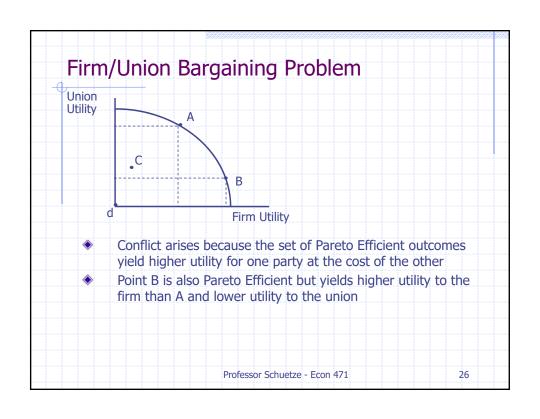
There is a set of characteristics that is common to all bargaining situations

- ~
- •
- For the bargaining problem of a collective agreement between a firm and a union the problem might be illustrated as follows:

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### **Bargaining Problem Solutions**

There are two classes of solutions:

- 1.
- Give a set of properties that describe the outcome
- 2.
- Model the process of bargaining along with giving predictions about the outcome
- What follows are examples of each of these

### The Nash Bargaining Solution:

- Follows from the work of John Nash
- Assumes perfect information about the possible payoffs and preferences
  - Not about what the other party will do

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### The Nash Bargaining Solution

- Outlines four axioms that a solution to the bargaining problem must obey
- 1. The outcome must be Pareto Efficient
- **2.** If the bargaining set is "symmetric" the solution must give equal utility increments to each party
- **(**
- Bargaining power depends on possible outcomes
- With symmetry both parties have the same amount of bargaining power

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### The Nash Bargaining Solution

- **3.** The solution is not altered by a linear transformation of either party's utility function
- The units that utility is measured in should not matter
- •
- 4. Independence of Irrelevant Alternatives
- The basic idea is as follows:
- Suppose you "play the game" with all possible outcomes and come to a solution

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### The Nash Bargaining Solution

 If we remove some of the possible outcomes (other than the solution) we should get the exact same outcome

Example: Deciding on how to get to school

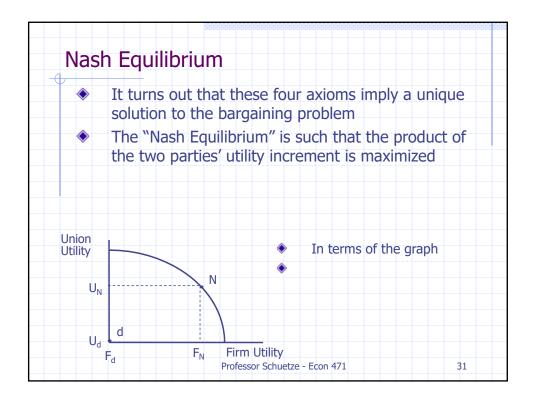
- Choose between: bus, car and bike
- Suppose you choose to ride your bike
- You find out that, in fact, the buses are not running

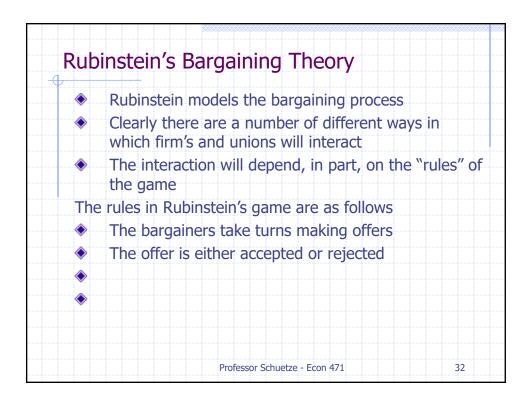
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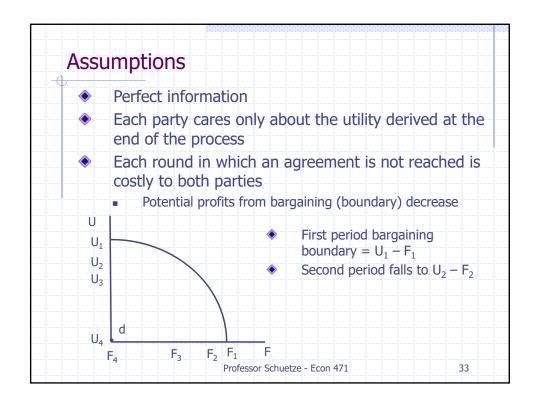
It is a little more complex in a two person situation and it is an axiom that is often violated in experiments

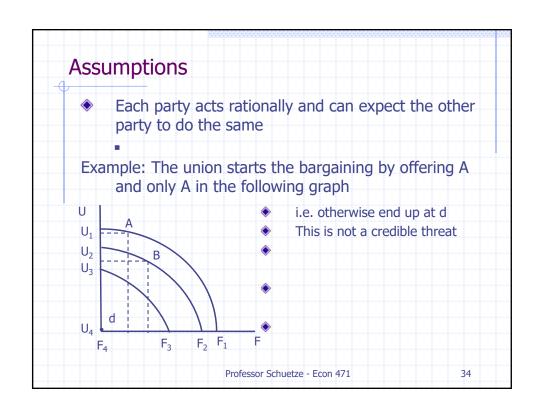
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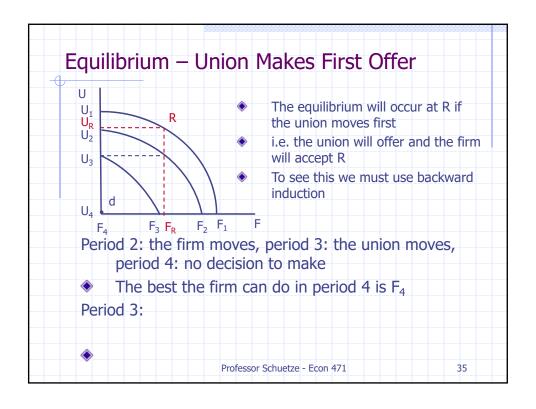
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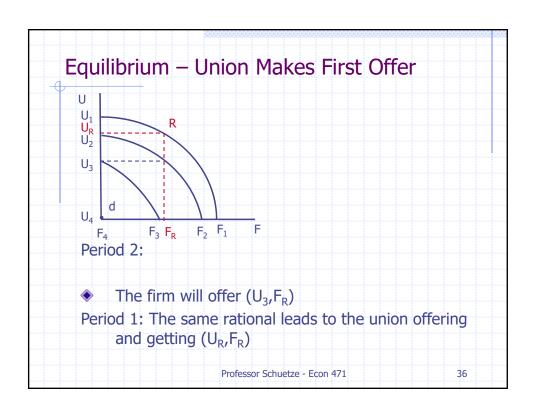


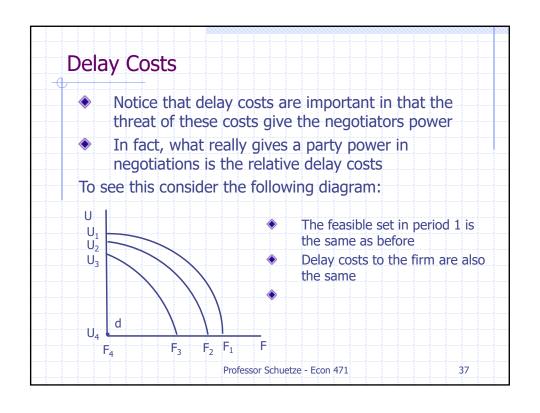


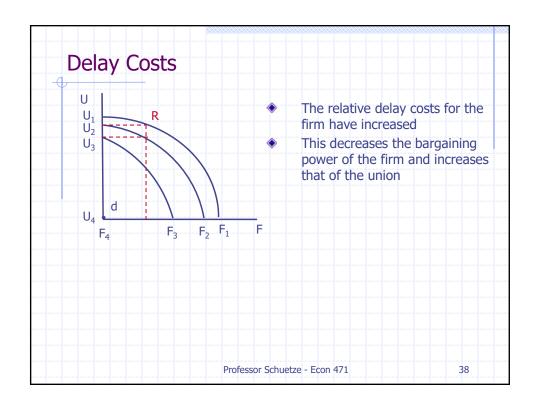












<b></b>	Clearly, Rubinstein's model is overly simplistic
•	Captures the importance of relative delay costs in determining the equilibrium outcome
•	Might help to explain why strikes or lockouts are important in bargaining
<ul><li> </li><li> </li></ul>	Doesn't help to explain why strikes actually occur

<ul><li></li></ul>	The strike is irrational
•	The irrationality of strikes is known as the "Hicks Paradox"
•	Most models that attempt to explain strikes assume that there is asymmetric information
<b>\oint\oint\oint\oint\oint\oint\oint\oint</b>	In such circumstances strikes may make sense

