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# **Group Dynamics**

"Watch out for the Stobor."

-Robert Heinlein, Tunnel in the Sky

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# Learning Objectives

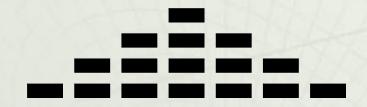
By the end of this module, you will understand some basics about how groups work, including the following:

- Organizational structure and motivation
- > Fundamentals of effective group dynamics
- Group roles
- > Leadership
- ➤ Groupthink

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# Organizational Structures

Organizational structure has implications in terms of career choices and small team management



Top-Down (Hierarchy) Organization



Bottom-Up (Flat) Organization



Interactive (Matrix) Organization

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# Top-Down Organization

#### > Structure:

- Hierarchical and traditional
- Decision-making authority comes from manager or leader
- Policies and procedures are highly structured and imposed upon group members (i.e., rules)
- Formal authority used to resolve disputes

### > Examples:

 Large organizations and companies (SFU, IBM, Raytheon), traditional classroom

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# Top-Down (Cont'd)

### Advantages:

- Efficiency
- Clear rules
- Clear lines of communication

#### > Disadvantages:

- Inflexible
- Discourages risk-taking and individual initiative
- Emphasizes goals at expense of people

#### > Motives:

 Appeals most to people motivated by power (i.e., success is measured by position in organization). NB: Distinguish between socialized power (Win-Win) vs Individualized power (Win-Lose)

#### Key Values:

Efficiency and order

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# Bottom-Up Organization

#### > Structure:

- Horizontal or communal
- Decision making is democratic and reached by consensus
- Policies and procedures are loosely defined and agreed upon
- Negotiation used to resolve disputes

### > Examples:

The Peak, SFU Women's Collective, 1960's classroom

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# Bottom-Up (Cont'd)

### > Advantages:

- Democracy
- Fosters warm relationships
- Encourages personal development

### Disadvantages:

- Inefficient
- Collapses if factions develop
- Emphasizes relationships at the expense of goals

#### > Motives:

 Appeals most to people motivated by affiliation (i.e., the desire to belong to a group)

#### Key Values:

Personal development and socialization

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# Interactive Organization

#### > Structure:

- Network/Matrix/Web organization
- Some decision-making authority from manager, but individual initiative, risk-taking, and responsibility encouraged
- Policies and procedures are loosely defined and open to interpretation (i.e., guidelines)
- Combination of formal authority and negotiation used to resolve disputes

### > Examples:

 Small high-tech companies (e.g., McCarney, CREO), ESSS? Workshops?

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# Interactive (Cont'd)

#### > Advantages:

- Addresses different motives among members
- Flexibility when responding to rapidly changing circumstances
- Emphasizes both goals and personal development

### Disadvantages:

- Somewhat inefficient
- Unstable (depending upon individuals in organization or group can easily become top-down or bottom-up)

#### > Motives:

 Appeals most to people motivated by individual achievement, but doesn't restrict those motivated by other factors

#### > Key Values:

Flexibility and creativity

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### Recommendations

- Know what motivates you when considering what career path you prefer: power, social interaction, achievement
- > For small teams:
  - 3-4, a relatively flat structure often works OK
  - 5-6, a matrix structure is probably better
  - Larger than that, a hierarchical structure becomes more effective (the bigger the organization, the more that leadership becomes critical)
- CONSEQUENCE: For ENSC 405W/440, DO NOT expect someone to tell you what to do. Individual initiative and responsibility are assumed and expected.

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# Stages of Team Development

Stage	Major Processes	Characteristics
1. Forming (Orientation)	<ul> <li>Exchange of information</li> <li>Increased interdependency</li> <li>Task exploration</li> <li>Identification of commonalities</li> </ul>	<ul><li>Tentative interactions</li><li>Polite discourse</li><li>Ambiguity</li><li>Self-discourse</li></ul>
2. Storming (Conflict)	<ul><li>Disagreement over procedures</li><li>Expression of dissatisfaction</li><li>Emotional responses</li><li>Resistance</li></ul>	<ul><li> Criticism of ideas</li><li> Poor attendance</li><li> Hostility</li><li> Polarization &amp; coalition forming</li></ul>
3. Norming (Cohesion)	<ul> <li>Growth of cohesiveness &amp; unity</li> <li>Establishment of roles, standards, &amp; relationships</li> </ul>	<ul><li>Agreement on procedures</li><li>Reduction in role ambiguity</li><li>Increased "we-feeling"</li></ul>
4. Performing (Performance)	<ul><li>Goal achievement</li><li>High task orientation</li><li>Emphasis on performance &amp; production</li></ul>	<ul><li>Decision making</li><li>Problem solving</li><li>Mutual cooperation</li></ul>
5. Adjourning (Dissolution)	<ul><li>Termination of roles</li><li>Completion of tasks</li><li>Reduction of dependency</li></ul>	<ul><li>Disintegration &amp; withdrawal</li><li>Increasing independence</li><li>Regret</li></ul>

Source: Bruce Tuckman (grey area is a later addition to the original model).

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# **Group Dynamics**

### Effective group dynamics requires

- > Respect for one another
- Clearly articulated shared goals
- > Frequent interaction
- Shared decision-making power (with or without a formally designated leader)
- Equitably divided tasks
- Shared responsibility for mistakes and successes
- Free expression of opinions, perspectives, & constructive criticism

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## Respect

- Without respect, you do not have a team, but simply a collection of individuals working on individual tasks.
- > You express respect by
  - Listening actively to others
  - Recognizing the strengths and limitations of yourself and others
  - Acknowledging accomplishments of others
  - Recognizing our own limitations
  - Honest communication

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# Setting Group Goals

### Professional goals

Design on-time and within budget, effective documentation, satisfied customers, etc.

### > Personal goals

Develop leadership skills, improve public speaking skills, learn new technical skills, etc.

### Social goals

Betterment of society, assistive devices for the disabled, create employment, etc.

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## Group Interaction

- Frequent (weekly) group meetings to discuss various technical and project-oriented issues. Do not rely upon social media (i.e., facebook) as it can result in major problems, Meet f2f.
- > Often, well-functioning groups will also meet socially.
- You can measure how well you feel your team is functioning by paying attention to how often you attend group meetings and asking why you anticipate or dread them.

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### Task-Oriented Roles

### > Formally Assigned Roles

- Team leader
- Secretary/Recorder
- Devil's advocate

### > Expertise Related Roles

- Budget manager
- Marketing specialist
- Technical writer
- Specialist in physics, biomedical, coding, systems, electronics

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# Socially-Oriented Roles

#### Constructive Roles

- Mediator
- Facilitator
- Comedian
- Standard setter
- Supporter
- Leader

### Destructive Roles

- Aggressor
- Attention seeker
- Complainer
- Dominator
- Harasser
- Idler

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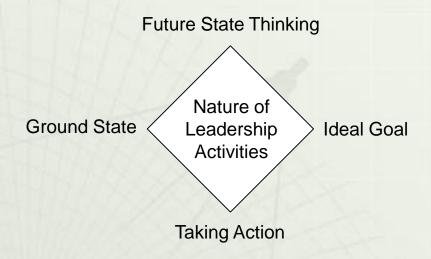
### Traits of Effective Leaders

- Manage time effectively
- Recognize limitations to their authority and expertise
- Delegate tasks effectively and fairly
- Are flexible in approaches to solving problems
- Make decisions fairly and as quickly as possible
- Honest and trustworthy
- Avoid micro-managing
- Tenacious and energetic
- Good communicators
- Motivate people

For more about effective leadership, I recommend the following book: David Colcleugh. 2013. *Everyone a Leader: A Guide to Leading High Performance Organizations for Engineers and Scientists*. University of Toronto Press.

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### What Is Leadership as an Activity?



- > Ground State: How things are now
- > Future State Thinking: Objectives and plans
- > Ideal Goal: How things could be improved
- > Taking Action: Making positive change

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# Communication Style of Leaders

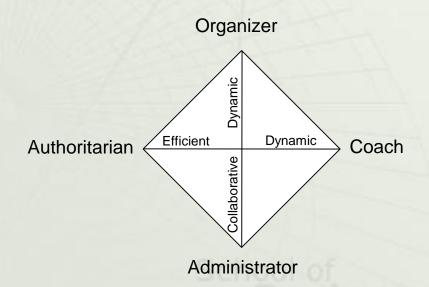
- > Consult team members frequently
- > Are good listeners
- Encourage alternative viewpoints
- Provide honest and specific feedback
- > Resolve conflicts effectively and fairly
- Never hoard information

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### Motivational Tasks of Leaders

- Keep team focused on tasks
- Encourage and maintain the team spirit
- Encourage individuals to fulfill personal goals
- Provide ample positive feedback/rewards
- Praise in public; punish in private
- Listen, listen, listen: people need to feel heard
- Leadership styles:



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### Division of Labour

### Quantity of Work

- Too much = resentment and/or burnout
- Too little = complacency and/or boredom

### Quality of Work

- Too high = frustration and/or anxiety
- Too low = resentment and/or boredom
- Balance the quality and quantity of work with the person's abilities and interests.
- Complete the tasks expected of you on time.
- Everyone should report weekly on what they have done.
- Most common source of team problems.
- > Don't carry a lazy team member; actively manage the issue.

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# Team Responsibility

- > All are responsible for success
  - .. Nobody is the Hero
- > All are responsible for failure
  - .. Nobody is the Scapegoat
- > You are all in this together.
- Problems with one team member often result in dramatically lower outcomes with respect to grades and quality.

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# Symptoms of Groupthink

### Loyalty, unity, agreement (Silencing)

- > Deviation from group consensus is not permitted
- > Doubts and concerns are not expressed
- Minority viewpoints are ignored
- Criticisms from outside the team are not shared within the team

### **Obstruct critical thinking**

- Overly optimistic; risks ignored
- Negative feedback or discrepancies ignored
- Ethical implications ignored
- Competitors are viewed as evil, weak, incompetent

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# Dealing with Groupthink

- The best way to prevent groupthink is to encourage a team member to act as "Devil's Advocate"
- ➤ All members should recognize the contribution of the person who takes this role, even in the heat of the moment
- > Don't dismiss this person's comments
- Pay close attention to external information about your team from TAs, instructors, clients.

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### **Conflict and Teams**

- > If you are in a team, there will be some conflict
- Most members of a team have to learn two fundamentals:
  - Having different opinions is an essential benefit of teamwork.
  - Team members have strong feelings and emotions. A team cannot achieve its full potential if all that is allowed is logic or information.
- ➤ To deal with this, you need to actively manage disagreement and conflict, and resolve disagreements that may be escalating dangerously.

Adapted from http://archive.tlt.psu.edu/suggestions/teams/student/conflicts.html

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# Minimizing Team Conflict

State expectations clearly to give the team a common ground to begin any discussion. Some ways to clarify expectations include:

- Developing a clear statement of team mission or purpose
- Establishing ground rules governing participation, sharing of responsibilities, etc.
- Agreeing to depersonalize conflicts
- Recognizing that team processes, including discussion and brainstorming, is important to results and needs regular attention
- Using structured processes for problem solving and conflict resolution
- Understanding the stages of project development and maintenance priorities of each stage
- Clearly defining individual responsibilities for real work for each other; clear linkage between individual responsibilities and the team mission
- Clearly defining project standards and time lines

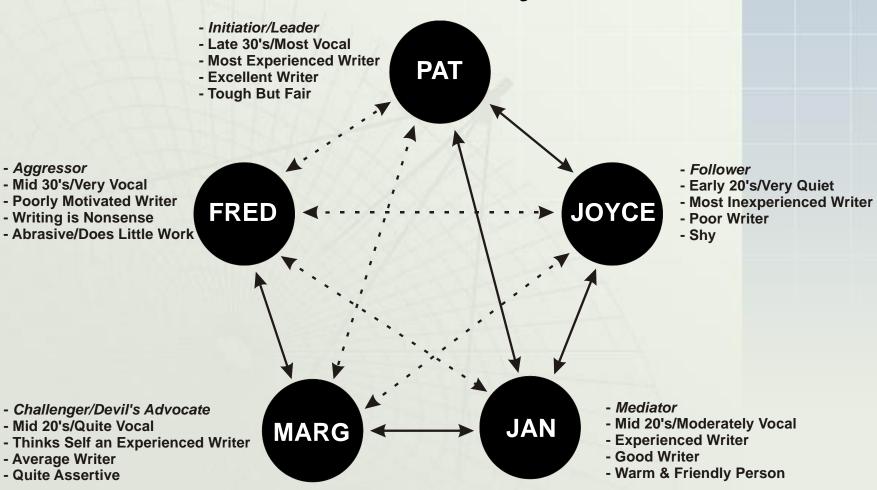
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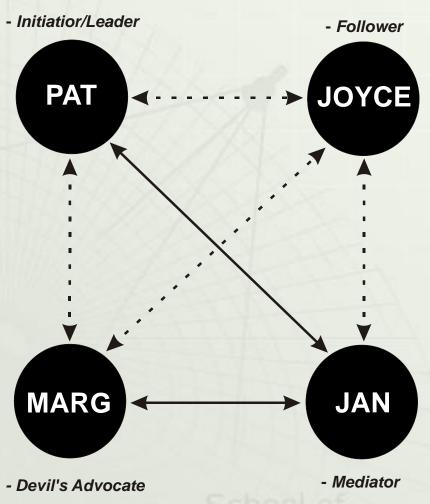
# Model for Resolving Conflicts

- 1. Fully and clearly identify the problem to be resolved.
  - a) Describe all sides to the dispute.
  - b) Listen carefully to all sides.
  - c) Ensure everyone accepts the definition of the problem.
- 2. Generate alternative solutions to the problems.
- 3. Evaluate the alternative solutions.
- 4. Ensure that all members accept decisions.
- 5. Implement the solution to the problem.
- Set a target date to evaluate the effectiveness of the solution.

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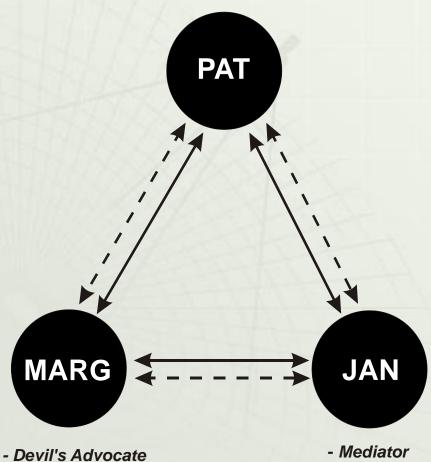


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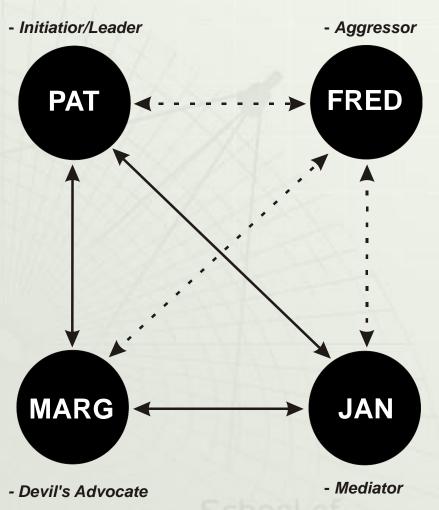


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- Initiatior/Leader



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## A Wise Student Perspective

"In regards to group dynamics, I've discovered that no group works well without someone to lead them - a completely flat structure tends to leave no one responsible for anything in particular, and once this happens, tasks may get delayed while no one picks them up. I found that at least by assigning each person in the group with a defined task, written down, with deadlines included, things seem to get done more efficiently."

- Andrew Morning-Smith, 2000

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### Project Management Text, Shop Skills, Proposals

- A basic text about Project Management is provided on the course website (reading is optional, but recommended): Adriane Watt. 2014. Project Management: <a href="http://opentextbc.ca/projectmanagement/">http://opentextbc.ca/projectmanagement/</a>
- ➤ On Thursday May 24 (and the following 3 Thursdays), we will offer the Shop Skills workshops in ASB 8806A. Two teams (A & H) will take part in the first one. I will send the team contacts their team numbers along with the schedule later this week. Please ensure you arrive no later than 8:30 as we will start then. Attendance is mandatory.
- ➤ Your project proposal is due on Thursday, May 31 by 11:59 PM. Remember to e-mail it to me as an attachment in .pdf format, using your team letter for the file name (e.g., aprop.pdf).

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### Conclusion

"Do I contradict myself? Very well then, I contradict myself. (I am large, I contain multitudes.)"

-Walt Whitman, Leaves of Grass

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