CLAIMS:

1. A waterslide, comprising:

a chute configured to facilitate water flow along the chute and configured to transport a patron;

an adjustable joint positioned along the chute; and

an actuator configured to manipulate the adjustable joint such that a flow path of the chute is changeable.

2. The waterslide of claim 1, wherein the actuator comprises a vertical actuation mechanism configured to move the adjustable joint along a vertical path.

3. The waterslide of claim 1, wherein the actuator comprises a horizontal actuation mechanism configured to move the adjustable joint along a horizontal path.

4. The waterslide of claim 1, wherein the actuator is configured to provide six degrees of freedom.

5. The waterslide of claim 1, wherein the adjustable joint comprises flexible material of the chute and a coupling feature attached to the actuator.

6. The waterslide of claim 1, wherein the adjustable joint comprises a chute segment, the chute segment housing an extension configured to slide out of the chute segment to accommodate flow path changes.

7. The waterslide of claim 1, wherein the chute comprises a plurality of substantially rigid troughs and/or tubing segments coupled via a plurality of adjustable joints.

8. The waterslide of claim 7, wherein the actuator is coupled with a one of the plurality of substantially rigid troughs or tubing segments.

9. The waterslide of claim 1, comprising a containment structure with flexible walls disposed at a base of the chute and an additional chute exiting the containment structure.

10. The waterslide of claim 8, wherein the containment structure comprises an inflatable structure.

11. The waterslide of claim 1, comprising a plurality of secondary chutes configured to align with the chute when the flow path of the chute is arranged correspondingly.

12. A waterslide, comprising:

a slide formed from one or more chute segments and one or more adjustable joints configured to facilitate water flow along the slide and configured to transport a patron along the slide;

wherein the one or more chute segments and the one or more adjustable joints are configured to be arranged to provide a plurality of different flow paths; and

one or more actuators configured to manipulate the one or more adjustable joints to arrange the slide to provide each of the plurality of different flow paths.

13. The waterslide of claim 12, comprising a plurality of secondary slides, wherein each of the plurality of secondary slides is configured to align with the slide when the slide is arranged to provide a corresponding one of the plurality of flow paths.

14. The waterslide of claim 12, wherein the slide is configured to align a base of the slide with one of a plurality of locations along a top portion of a broad slide depending on which of the plurality of flow paths the slide is arranged to provide.

15. The waterslide of claim 12, wherein the one or more actuators each comprise one or more of a vertical actuation mechanism, a horizontal actuation mechanism, and a rotational actuation mechanism.

16. The waterslide of claim 12, wherein the one or more actuators comprise an actuator that is directly coupled to the one or more chute segments.

17. The waterslide of claim 12, wherein the one or more actuators comprise an actuator that is directly coupled to the one or more adjustable joints.

18. The waterslide of claim 12, wherein the slide is configured to align an entry of the slide with one of a plurality of waiting locations depending on which of the plurality of flow paths the slide is arranged to provide.

19. A method of changing a flow path of a waterslide, comprising:

receiving water into a slide such that the water flows along a flow path of the slide, wherein the slide comprises a chute and a joint configured to facilitate transport of the water and a patron;

activating an actuator coupled with the chute or the joint such that the chute moves about the joint and changes the flow path; and

adjusting a feature of the chute or joint based on the movement of the chute about the joint to maintain connectivity between the chute and the joint.

20. The method of claim 19, comprising activating the actuator during transport of the patron.

21. The method of claim 19, wherein adjusting the feature comprises sliding an extender from within the joint or the chute to accommodate a gap between the chute and the joint formed by the movement of the chute about the joint.

22. The method of claim 19, comprising monitoring a containment structure formed of flexible material disposed along the flow path to determine whether the patron is within the containment structure.

CLAIMS

1. A waterslide, comprising:

a chute configured to facilitate flow of water along the chute and configured to transport a patron with the water to an exit point of the chute;

an adjustable joint positioned along the chute; and

an actuator configured to manipulate the adjustable joint such that a flow path of the chute is changeable; and

a plurality of receiver slides configured to align with the chute when the flow path of the chute is arranged correspondingly.

2. The waterslide of claim 1, wherein the adjustable joint comprises flexible material of the chute and a coupling feature attached to the actuator.

3. A waterslide, comprising:

a chute configured to facilitate flow of water along the chute and configured to transport a patron with the water to an exit point of the chute;

an adjustable joint positioned along the chute; and

an actuator configured to manipulate the adjustable joint such that a flow path of the chute is changeable, wherein the actuator comprises a horizontal actuation mechanism configured to move the adjustable joint along a horizontal path.

4. The waterslide of claim 3, wherein the actuator comprises both the horizontal actuation mechanism and a vertical actuation mechanism configured to move the adjustable joint along a vertical path.

5. The waterslide of claim 3, wherein the actuator is configured to provide six degrees of freedom.

6. A waterslide, comprising:

a chute configured to facilitate water flow along the chute and configured to transport a patron;

an adjustable joint positioned along the chute; and

an actuator configured to manipulate the adjustable joint such that a flow path of the chute is changeable, wherein the adjustable joint comprises a chute segment, the chute segment housing an extension configured to slide out of the chute segment to accommodate flow path changes.

7. The waterslide of claim 6, wherein the chute comprises a plurality of substantially rigid troughs and/or tubing segments coupled via a plurality of adjustable joints.

8. The waterslide of claim 7, wherein the actuator is coupled with one of the plurality of substantially rigid troughs or tubing segments.

9. A waterslide, comprising:

a chute configured to facilitate water flow along the chute and configured to transport a patron;

an adjustable joint positioned along the chute;

an actuator configured to manipulate the adjustable joint such that a flow path of the chute is changeable; and

a containment structure with flexible walls disposed at a base of the chute and an additional chute exiting the containment structure.

10. The waterslide of claim 9, wherein the containment structure comprises an inflatable structure.

11. A waterslide, comprising:

a slide formed from one or more chute segments and one or more adjustable joints configured to facilitate flow of water along the slide and configured to transport a patron with the water along the slide to an exit point;

wherein the one or more chute segments and the one or more adjustable joints are configured to be arranged to provide a plurality of different flow paths; and

one or more actuators configured to manipulate the one or more adjustable joints to arrange the slide to provide each of the plurality of different flow paths, wherein the slide is configured to align a base of the slide with one of a plurality of locations along a top portion of a broad slide depending on which of the plurality of flow paths the slide is arranged to provide.

12. The waterslide of claim 11, wherein the one or more actuators each comprise one or more of a vertical actuation mechanism, a horizontal actuation mechanism, and a rotational actuation mechanism.

13. The waterslide of claim 11, wherein the one or more actuators comprise an actuator that is directly coupled to the one or more chute segments.

14. The waterslide of claim 11, wherein the one or more actuators comprise an actuator that is directly coupled to the one or more adjustable joints.

15. A waterslide, comprising:

a slide formed from one or more chute segments and one or more adjustable joints configured to facilitate flow of water along the slide and configured to transport a patron with the water along the slide to an exit point;

wherein the one or more chute segments and the one or more adjustable joints are configured to be arranged to provide a plurality of different flow paths;

one or more actuators configured to manipulate the one or more adjustable joints to arrange the slide to provide each of the plurality of different flow paths; and

a plurality of receiver slides, wherein each of the plurality of receiver slides is configured to align with the slide when the slide is arranged to provide a corresponding one of the plurality of flow paths.

16. A waterslide, comprising:

a slide formed from one or more chute segments and one or more adjustable joints configured to facilitate water flow along the slide and configured to transport a patron along the slide;

wherein the one or more chute segments and the one or more adjustable joints are configured to be arranged to provide a plurality of different flow paths;

one or more actuators configured to manipulate the one or more adjustable joints to arrange the slide to provide each of the plurality of different flow paths, wherein the slide is configured to align an entry of the slide with one of a plurality of waiting locations depending on which of the plurality of flow paths the slide is arranged to provide.

17. A method of changing a flow path of a waterslide, comprising:

receiving water into a slide at an entry point such that the water flows along a flow path of the slide, wherein the slide comprises a chute and a joint configured to facilitate transport of the water and a patron to an exit point;

activating an actuator coupled with the chute or the joint such that the chute moves about the joint and changes the flow path; and

adjusting a feature of the chute or joint based on the movement of the chute about the joint to maintain connectivity between the chute and the joint, wherein adjusting the feature comprises sliding an extender from within the joint or the chute to accommodate a gap between the chute and the joint formed by the movement of the chute about the joint.

18. The method of claim 17, comprising activating the actuator during transport of the patron.

19. A method, comprising;

receiving water into a slide at an entry point such that the water flows along a flow path of the slide, wherein the slide comprises a chute and a joint configured to facilitate transport of the water and a patron to an exit point;

activating an actuator coupled with the chute or the joint such that the chute moves about the joint and changes the flow path;

adjusting a feature of the chute or joint based on the movement of the chute about the joint to maintain connectivity between the chute and the joint; and

monitoring a containment structure with walls formed of flexible material disposed along the flow path with a control and monitoring system to determine whether the patron is within the containment structure.