



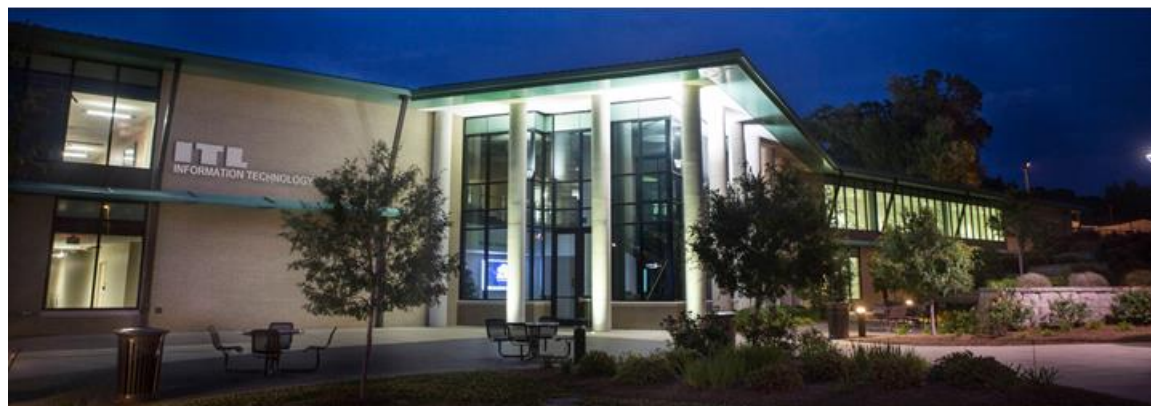
**US Army Corps  
of Engineers®**  
Engineer Research and  
Development Center



## **Engineering With Nature Website User Guide**

Michael A. Clement

March 2022



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Final Report

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## Abstract

The Engineering With Nature (EWN) program is a high-profile effort that aims to deliver cost-effective, broadly beneficial solutions to natural resource and sustainability challenges across the nation. A portion of this is accomplished through the use of the EWN website, which features news, podcasts, articles, and more. The content on the EWN website serves to educate and inform hundreds of visitors monthly. This content is generated and managed by EWN team members with web development experience, as it requires manually editing the website HTML and staging changes on a development server. With the EWN website 2.0, a new website framework (WordPress) has been implemented that will save content managers time and effort by providing a front-end user interface (UI) to enable the uploading, staging, and approval of new content for the website, along with a visual refresh to herald the impending release of season 2 of the EWN Podcast. This document's purpose is to demonstrate the functionality of the new EWN website and provide instructional material for those managing content via the new EWN website.

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## Preface

This study was conducted for the Engineer Research and Development Center—Environmental Laboratory under Project 495317, “Engineering With Nature,” Civil Direct Funding Account Code U4376841.

The work was performed by the Scientific Software Branch (SSB) of the Computational Science and Engineering Division (CSED), U.S. Army Engineer Research and Development Center—Information Technology Laboratory (ERDC-ITL). At the time of publication, Mr. Timothy W. Dunaway was chief, SSB; Dr. Jeff Hensley was chief, CSED. The deputy director of ERDC-ITL was Ms. Patti S. Duett, and the director was Dr. David A. Horner.

COL Teresa Schlosser was the commander of ERDC, and Dr. David Pittman was the director.

# 1 Introduction

The Engineering With Nature (EWN) website serves as a key distribution point for critical information surrounding the EWN family of endeavors. Through the EWN website, hundreds of people are able to get the latest information about what's happening in the EWN world.

This guide will provide an overview of the content management features of the Engineering With Nature WordPress site, along with detailed information about what functionality is contained in this web application.

Throughout this document, the reader will become more familiar with the various types of content that are hosted on the Engineering With Nature site, including podcasts, pages, posts, and more.

*Note: This web application requires the use of Google Chrome, Mozilla Firefox, or a similar modern browser in order to function properly. These browsers can be obtained from their respective sources:*

## **Chrome:**

<https://www.google.com/chrome>

## **Firefox:**

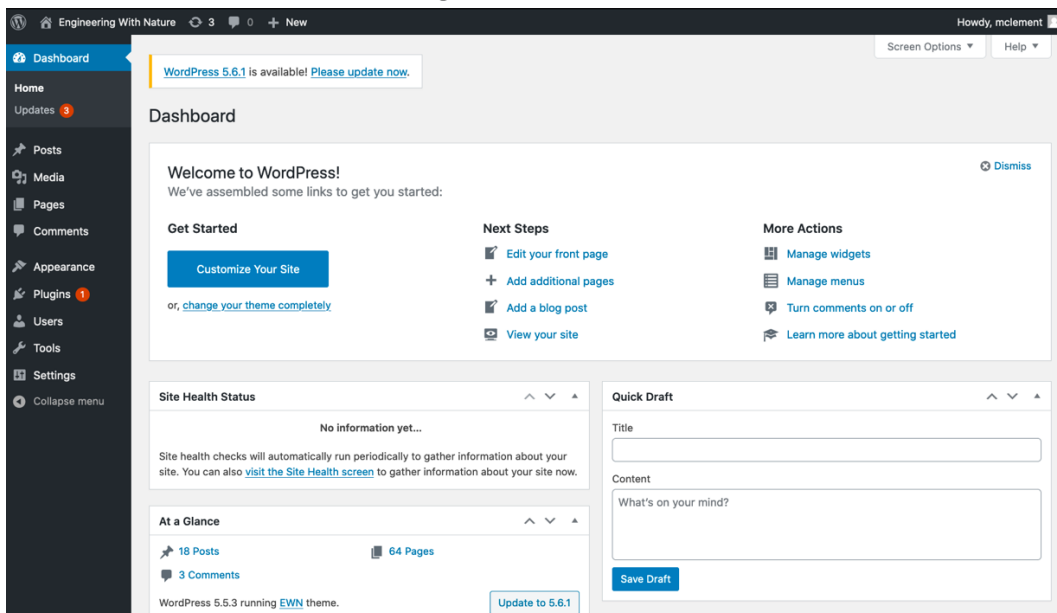
<https://www.mozilla.org/en-US/exp/firefox/>

## 2 Access

This section gives details regarding accessing the Engineering With Nature site (EWN) and a high-level overview of the components contained within.

For users with **administrator** accounts, the user must navigate to <https://ewn.erdcdren.mil/wp-admin> using a modern web browser to begin adding and managing content on EWN. Upon doing so, the user will be presented with a login prompt. After entering the login information, the user will be taken to the EWN 2.0 Dashboard (Figure 1).

Figure 1. Dashboard.



Users without administrator accounts should navigate to <https://ewn.erdcdren.mil/wp-login.php> and login using their username and password.

## 3 Adding Content

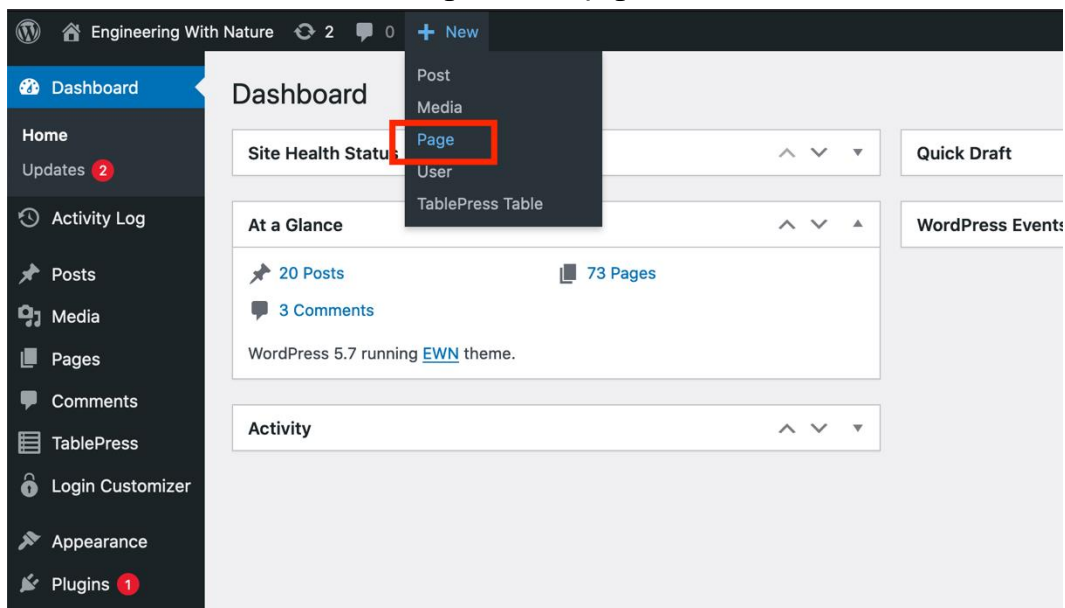
EWN has multiple types of content that can be created or uploaded to the site. The most significant types of content are **Pages**, **Posts**, and **Media**. Over the course of this section, these types will be elaborated on, and brief descriptions of how to add and manage content will be explained.

### 3.1 Pages

A page is a new page on the website. It can contain text and multimedia content such as images and videos. Pages can be organized in a hierarchy so that a page can be a parent page with subpages below it, providing structure to the site.

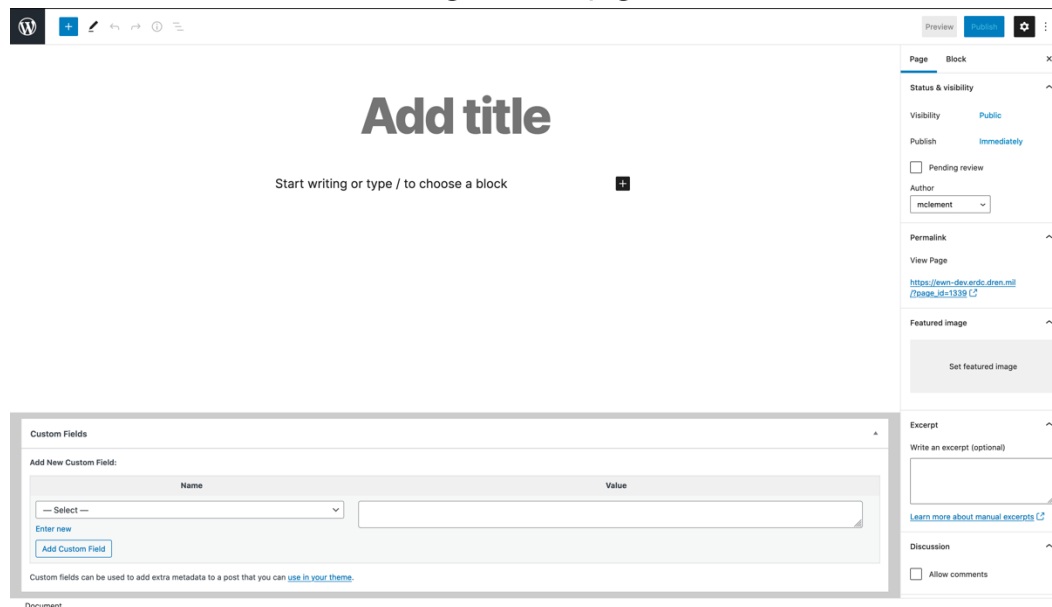
To add a page, first log in by going to <https://ewn.erdcdren.mil/wp-login.php>. Once there, a page can be added by clicking the + **New** button and selecting **Page** (Figure 2).

Figure 2. Add page.



Clicking this will yield the page editor, where content and settings for the page can be configured (Figure 3).

Figure 3. Edit page.



This screen has several areas of interest. In the center of the screen is the page content. To add text to the page, simply begin typing in the title or body area.

On the right side of the screen are advanced controls for the page that handle items like the page's featured image (thumbnail), whether user comments are permitted, which visual style template to use for the page, and more.

At the bottom of the page are **Custom Fields**. These are used to provide additional functionality in specific instances. Custom Fields will be discussed in more detail in Section 6.1.

In addition to plain text, pages can hold **Blocks**. Blocks enable adding images and videos to pages as well as special functionality within the page, such as stylized quotations, tables, and even custom HTML. Blocks are how all nontext content is added to a page.

To add a block to the page, click the + in the top left, and select the desired block (Figure 4 and Figure 5).

Figure 4. New block button.

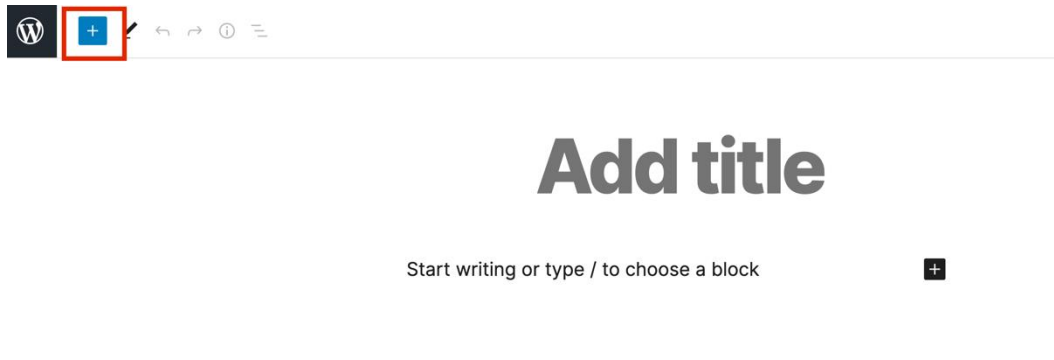
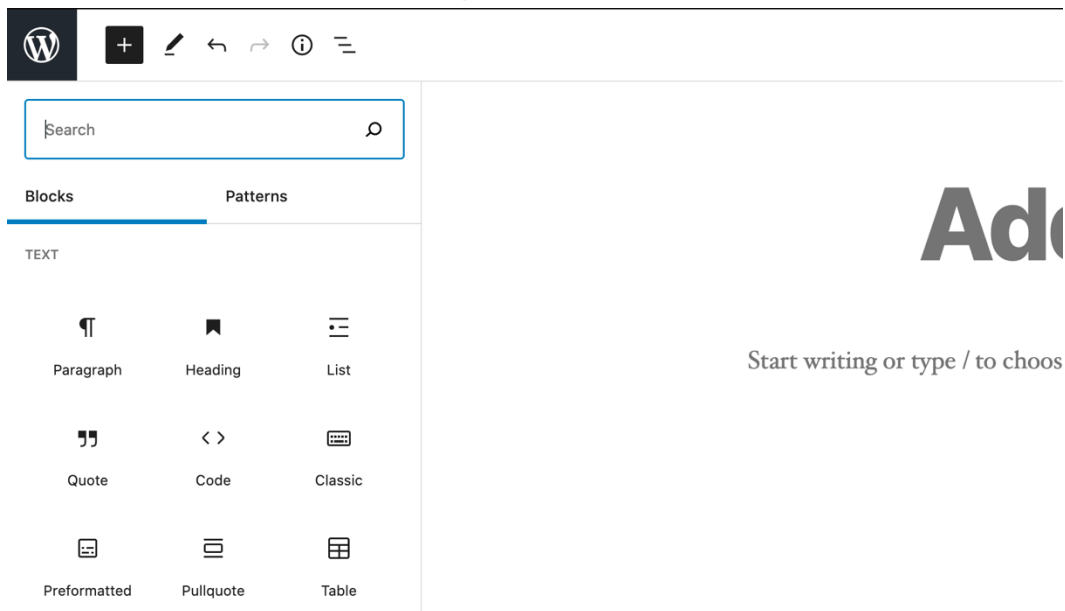
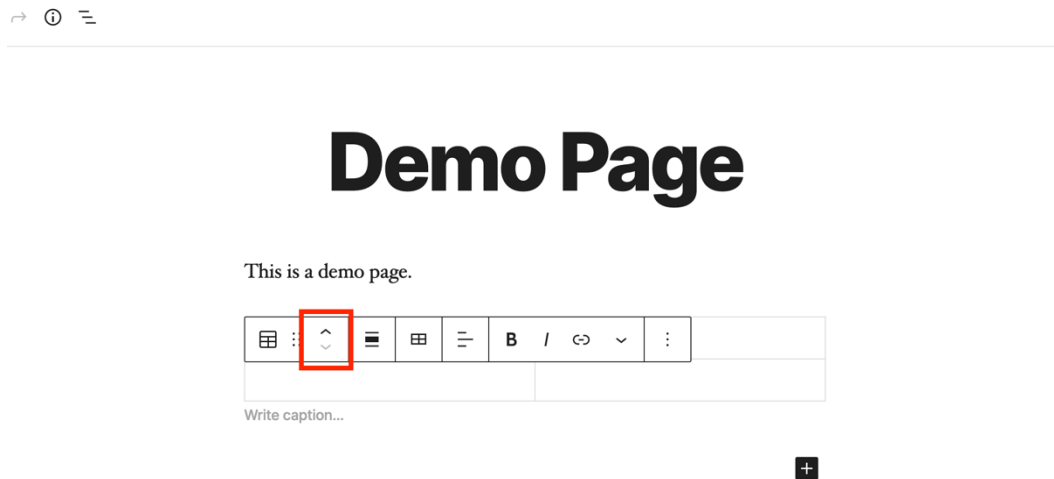


Figure 5. Blocks.



Clicking a block in this menu will automatically add it to the page, where it can be further customized. Blocks can also be moved up and down the page to reposition them as needed. To reposition a block, first add it to the page, then click the block. This will open the block's menu. With the block menu open, click the arrows on the left-hand side until it is positioned appropriately (Figure 6).

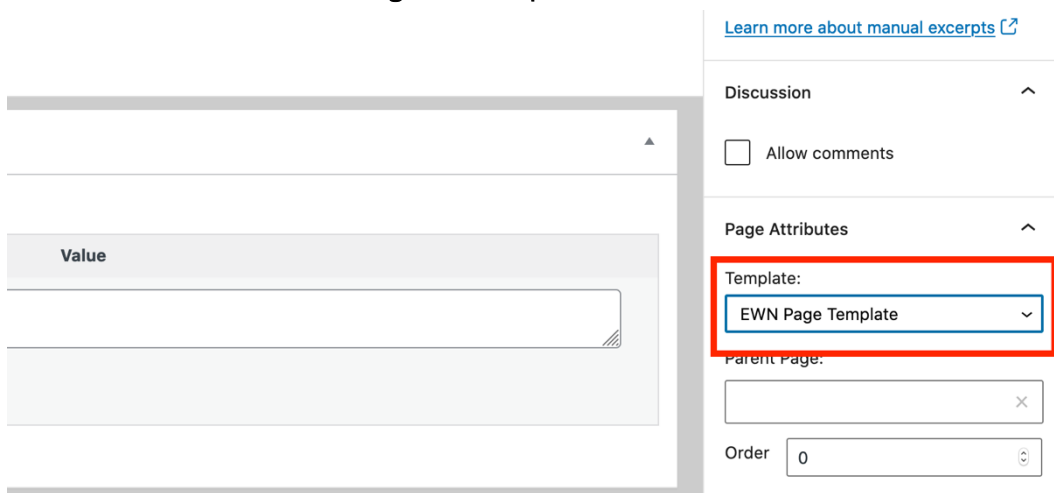
Figure 6. Reposition controls on a table block.



There are blocks for adding images, videos, and more. The block menu is searchable, which makes it easy to find the necessary blocks for the task at hand.

In order to ensure consistent style across the website, all new pages should have the correct **Template** selected. The template can be selected in the sidebar on the right-hand side of the editor (*Note: If the sidebar is collapsed, expand it by clicking the gear icon in the top-right corner of the editor*). All basic pages on EWN should use the **EWN Page Template** (Figure 7).

Figure 7. Template selection.



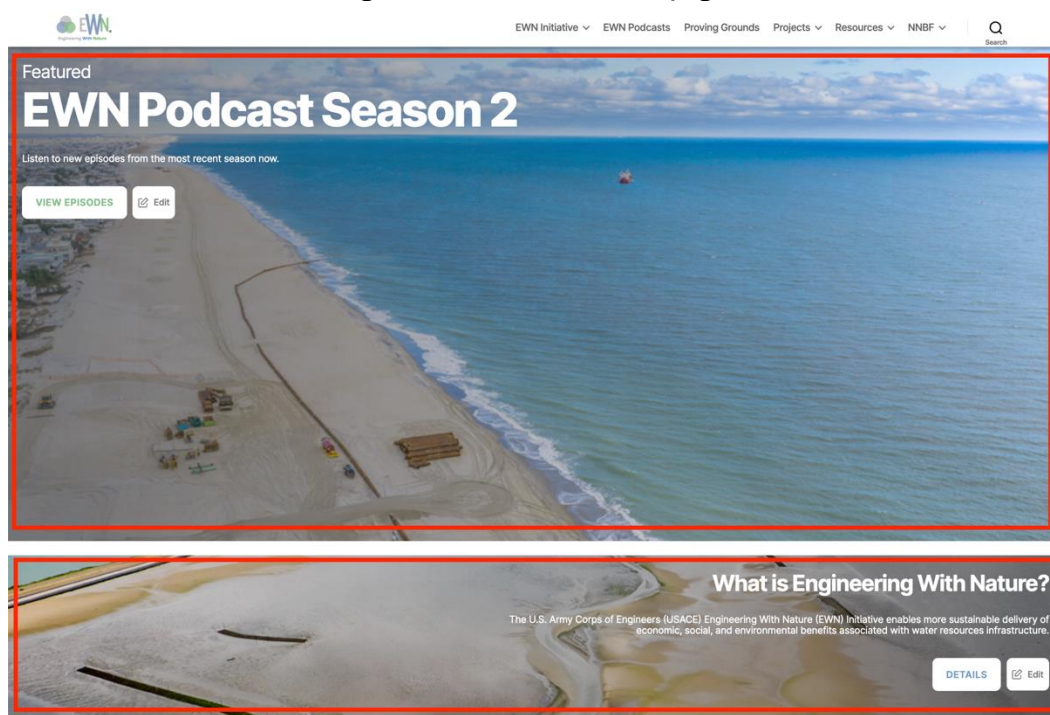
To save progress on a page while editing, click the **Save Draft** button in the top right of the editor. When a page is ready to be posted publicly, click the big, blue **Publish** button in the top right.

## 3.2 Posts

Posts are similar to pages. The main difference is in where they are displayed on the site. A page may contain multiple posts (like a blog), or a post may be the only item on a page.

EWN uses posts for special content types, such as the featured item and subsections on the home page, podcasts, and more. In Figure 8 below, two posts on the home page are highlighted in red:

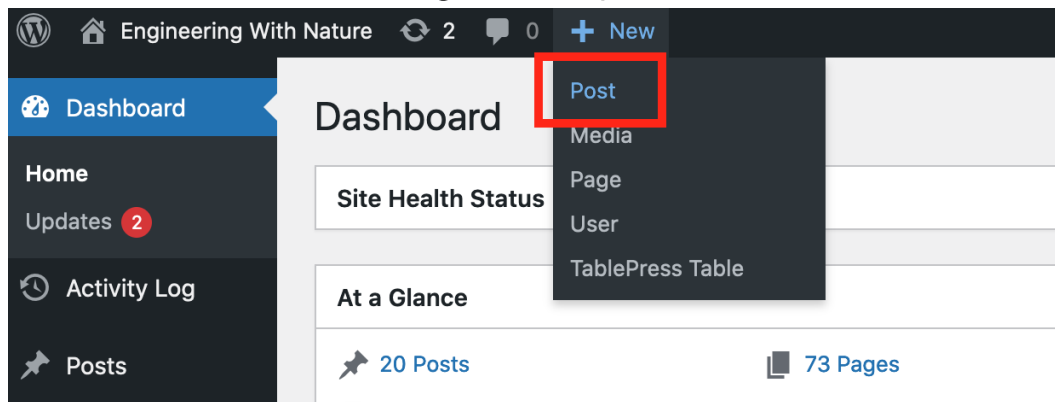
Figure 8. Posts on the home page.



Posts are added and edited just like pages. From the admin interface (<https://ewn.erdcdren.mil/wp-admin>), click the + **New** button and select post (Figure 9).

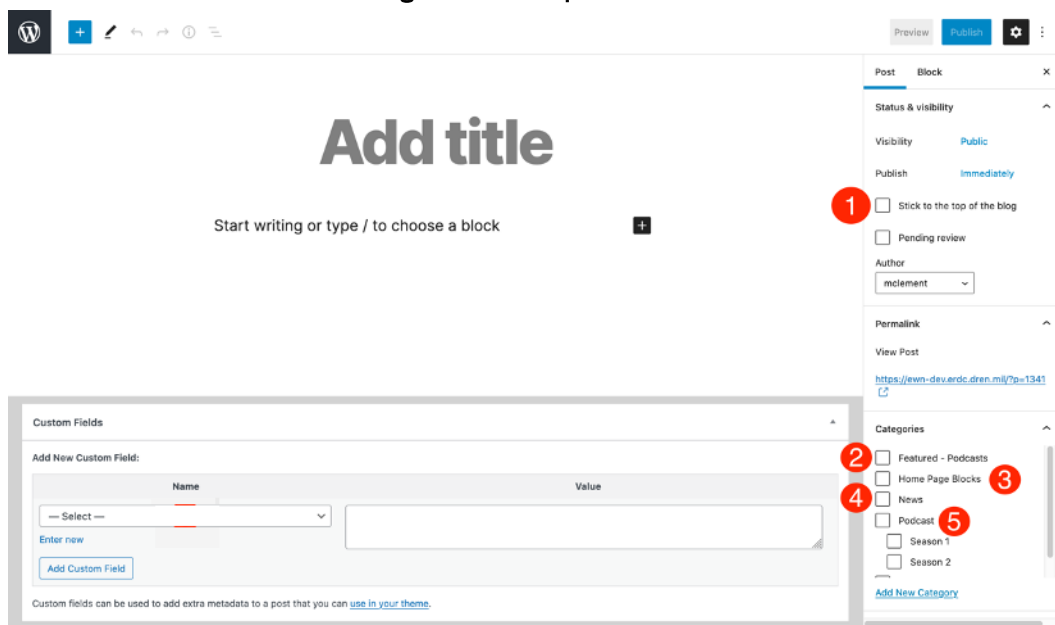


Figure 9. Add a post.



Upon doing so, you will be greeted by the new post editor screen (Figure 10).

Figure 10. New post editor.



Editing a post works just like editing a page (see Section 3.1 for more details). Where posts differ from pages is in how they are configured and displayed.

There are five main post configurations used across the EWN site and shown in Figure 10 in red. They are

**1. "Stick to the top of the blog":** This checkbox (found in the right-hand sidebar of the post editor) designates a post as the main featured content

at the top of the home page. When a post is configured this way, its **Featured Image**, **Title**, and **Excerpt** are displayed on the home page along with a button labeled “**More**” that links to the post. The button may be configured to have different text and a different link destination if desired (for more on configuring that button, see Section 6.1).

**2. “Featured—Podcasts”:** Posts that have this category checked will be displayed in the main featured section of the **Podcasts** page. To configure a post to be featured on the Podcasts page, click the **gear** icon in the top right of the editor to open the post editor sidebar. From there, locate the **Categories** section and select **Featured—Podcasts**. *(Note: If another post is already featured on the podcast screen you must first uncheck the featured box on that post to enable a new post to become featured).*

**3. “Home Page Blocks”:** Posts that have this category checked will be displayed on the home page below the main featured section. These posts are displayed in the same manner as the main featured item, meaning their **Featured Image**, **Title**, and **Excerpt** are displayed along with the **More** button that links to the full post. *(Note: These posts are displayed on the home page in the order they were most recently edited. So, the last post to be edited will display at the top of the section, and on down the list. To reorder, simply edit the individual posts in the reverse order you want them to display).*

**4. “News”:** Posts that have this category checked will be displayed on the home page in the **News** section. These posts are shown with their **Title** and **Excerpt** only. Up to five posts tagged as **News** will be shown on the home page, with the rest being available on the news archive page. For more on the **News Section**, see Section 6.2.

**5. “Podcast”:** Posts that have this category checked will be displayed on the podcasts page. Additionally, podcast posts must have a **Season** category selected to ensure proper grouping on the podcasts page. Posts that have the **Podcast** category must also use the “**Podcast Episode Template**” template. For more on adding podcasts, see Section 5.

To save progress on a post while editing, click the **Save Draft** button in the top right of the editor. When a post is ready to be posted publicly, click the big, blue **Publish** button in the top right.

If you do not want to publish immediately, click **Save draft**, located to the left of the **Publish** button. Drafts are found in the admin interface and can be edited or published at any time.

### 3.3 Media

Media refers to files of various types, such as images, videos, audio files, PDFs, and more. Media that is uploaded is available in the **Media Browser** and can be used in any post or page.

To upload media, navigate to the administrative interface at <https://ewn.erdcdren.milwp-admin> and click the + **New** button. Then select **Media** (Figure 11). This will open the media upload screen (Figure 12).

Figure 11. Add media.

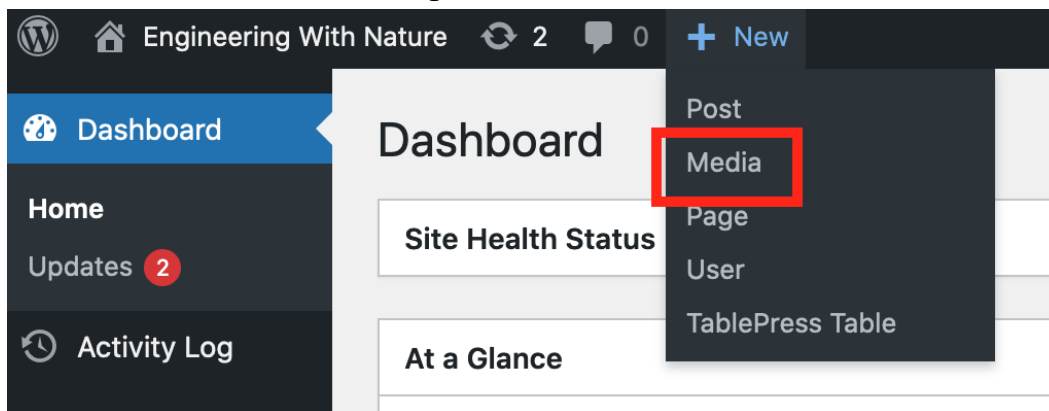
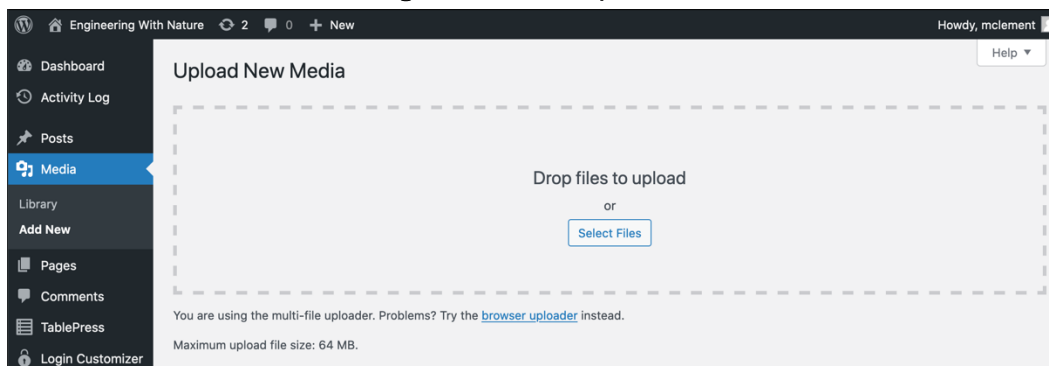


Figure 12. Media uploader.



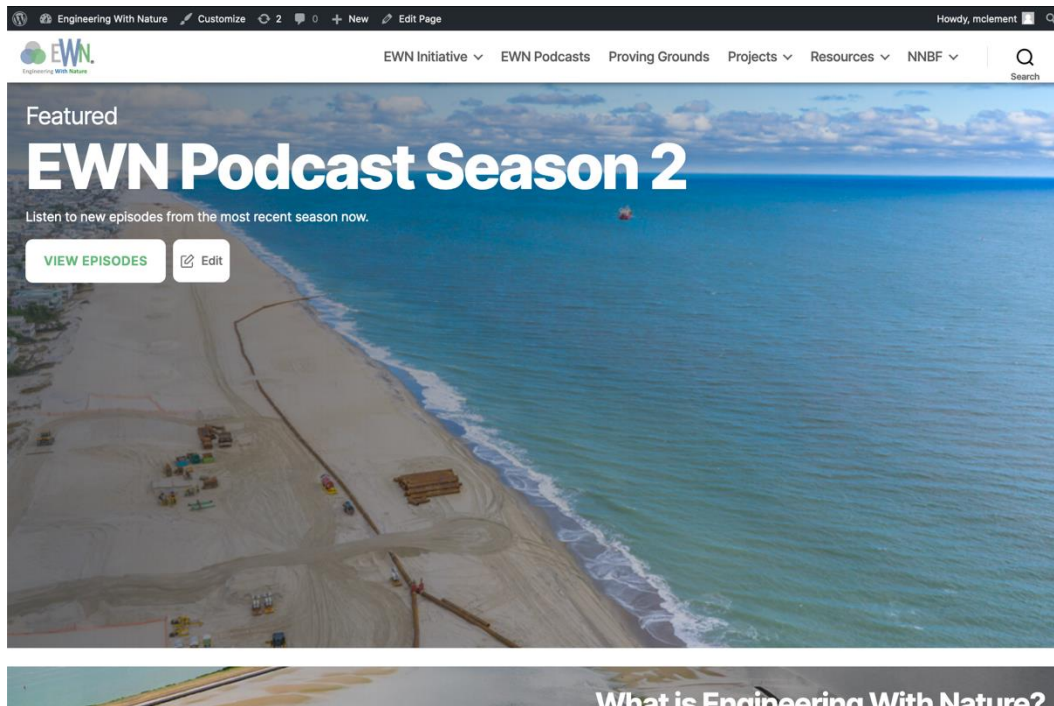
On this screen, media files can be dragged from the user's computer into this window or manually selected via the interface by clicking **Select Files**.



## 4 Home Page

This section will cover the home page's components (Figure 14), detailing how they can be customized and what is available to content editors.

Figure 14. EWN home page (logged-in view).



### 4.1 Navigation bar

The navigation bar is located at the very top of the page. It features the EWN logo and links to relevant pages as well as a search button that allows users to search for pages, posts, and media.

To customize the items displayed in the navigation bar, the user must login by going to <https://ewn.erdcdren.mil/wp-login.php>. Once logged in, the user can return to the home page and click the **Customize** button in the administrative toolbar at the top of the page. This opens up a menu on the left-hand side of the page (Figure 15).

Figure 15. Customization menu.



Clicking on the **Menu** option will open a second sidebar that allows the user to select which menu they want to customize. Select **Primary** (Figure 16).

Figure 16. Primary navigation.



After selecting the primary menu, the user will be met with a display of all menu items. Items can be dragged and dropped to reorder them. Dragging a menu item below and to the right of another item will create nested menu items, which results in a **dropdown** in the navigation bar (Figure 17).

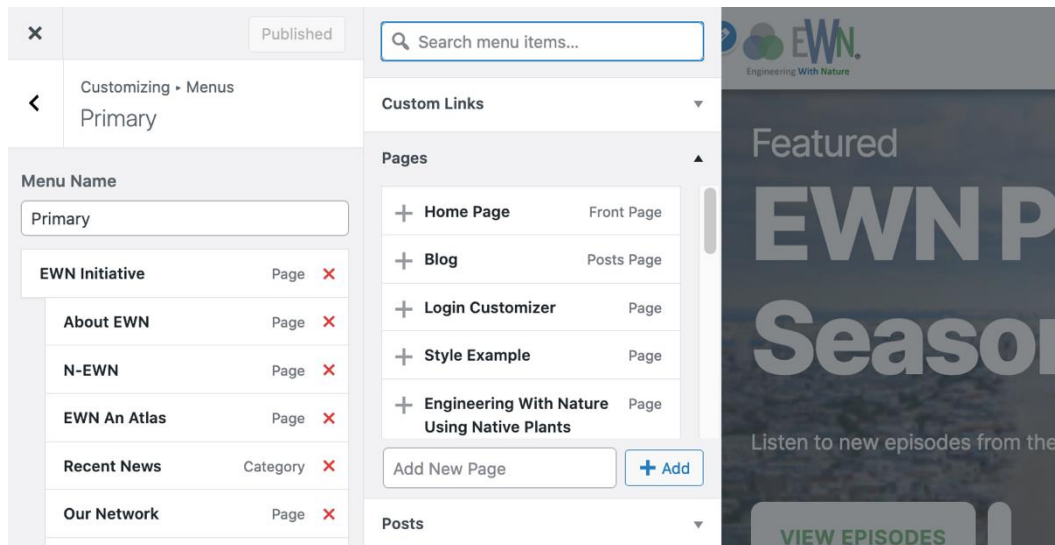


Figure 17. Menu items.



Clicking on the + **Add Items** button in the bottom of the sidebar will open a second sidebar that lets the user pick pages or posts to add to the navigation (Figure 18).

Figure 18. Add new items.



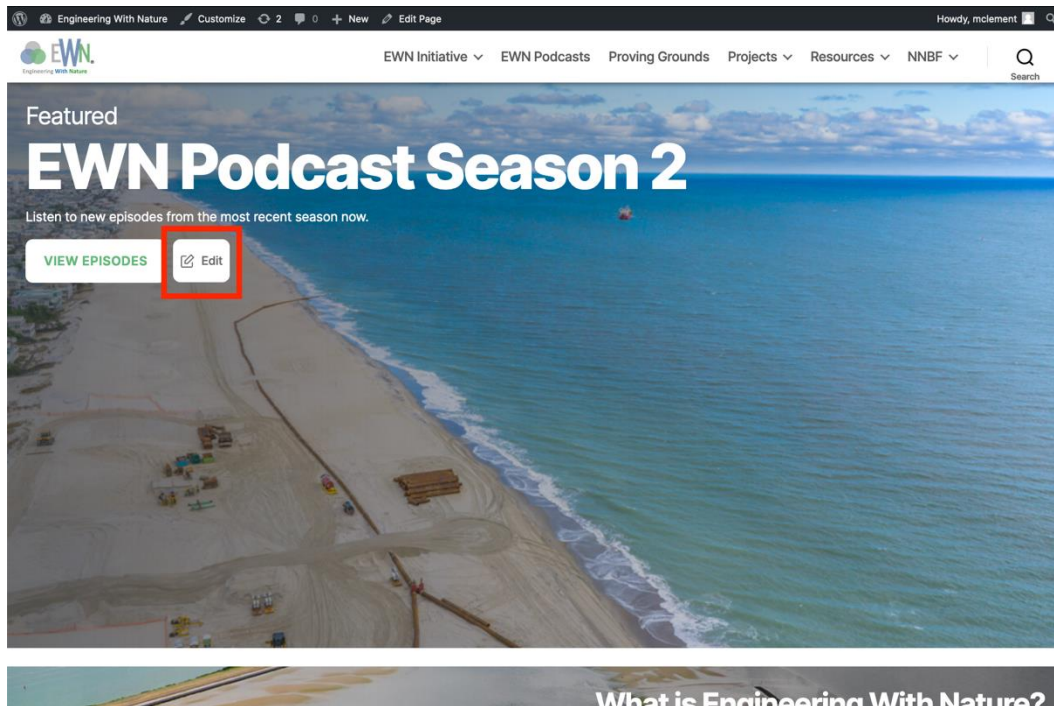
Once all changes are configured, click the big, blue **Publish** button at the top of the sidebar to save the changes. Then click the **X** in the top left to exit the customization screen.

## 4.2 Featured post

The featured content section of the home page is located at the top of the page and is the largest item on the home page. The featured post is any **Post** that has been set as “Stick to the top of the blog” (see Section 3.2).

When an administrator or other privileged user is logged in, they will see an **Edit** button alongside the featured post’s main button (Figure 19). Clicking that edit button will take the user to the post’s edit page where they can make changes to the post content, update the featured image, or uncheck the “Stick to the top of the blog” option to revoke its featured status.

Figure 19. Featured post edit button.



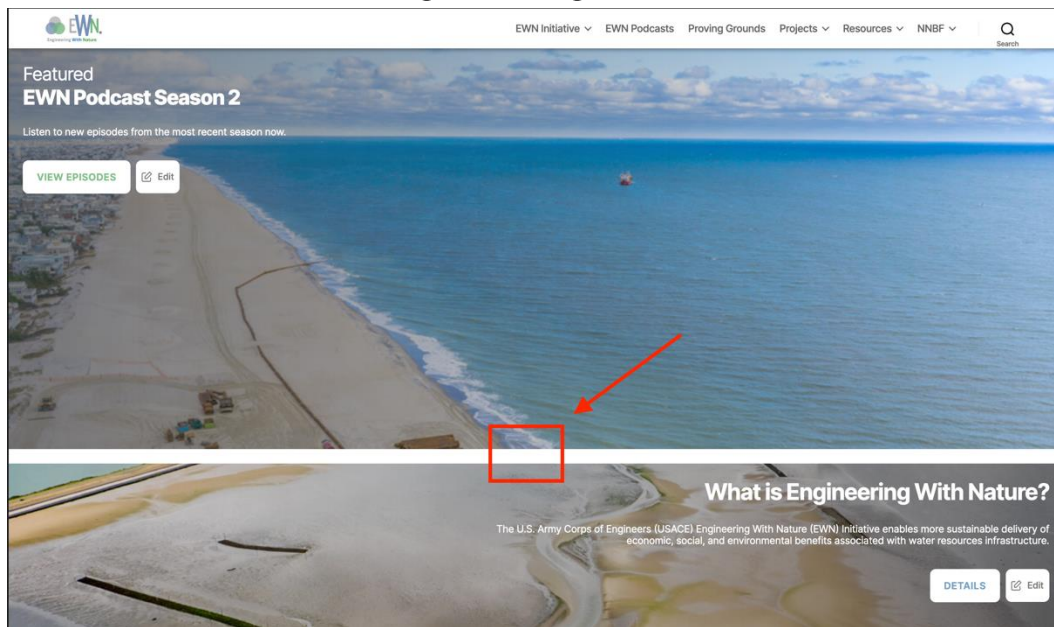
## 4.3 Home page widget areas

Immediately below the featured post is a **Widget Area** (Figure 20). A widget area is a place where widgets (pieces of custom functionality, similar to a **Block** in a post or page) can be placed.

The home page has two widget areas, one directly below the featured post and one directly below the **Home Page Blocks** (Section 4.4).



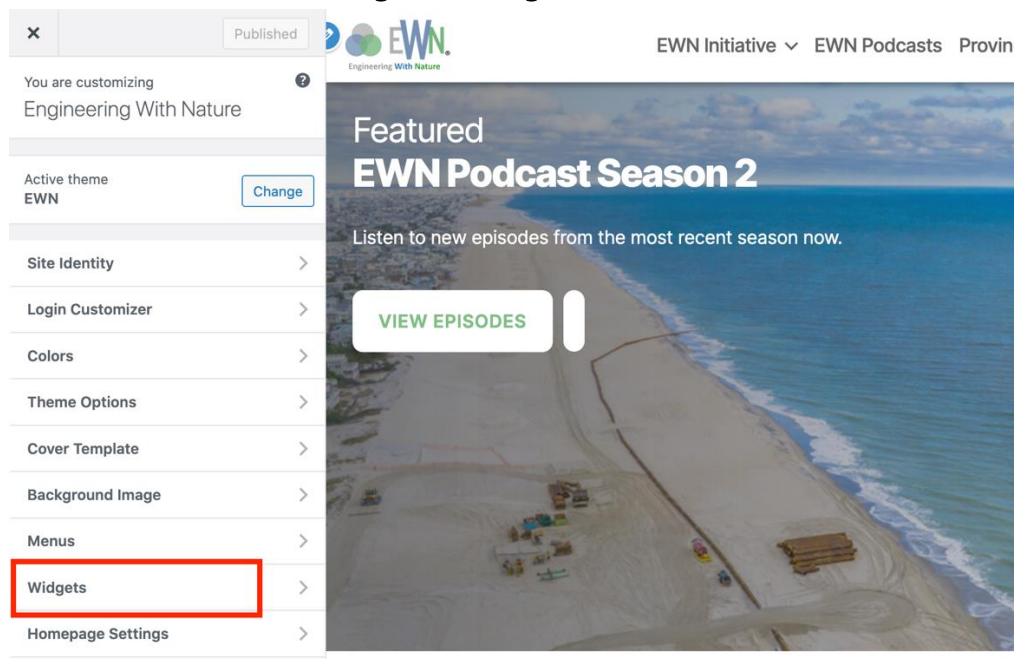
Figure 20. Widget area.



By default, there is nothing in this upper widget area. To add a widget (such as a photo gallery or a piece of custom HTML), log in and click the **Customize** button in the administrative toolbar at the top of the page.

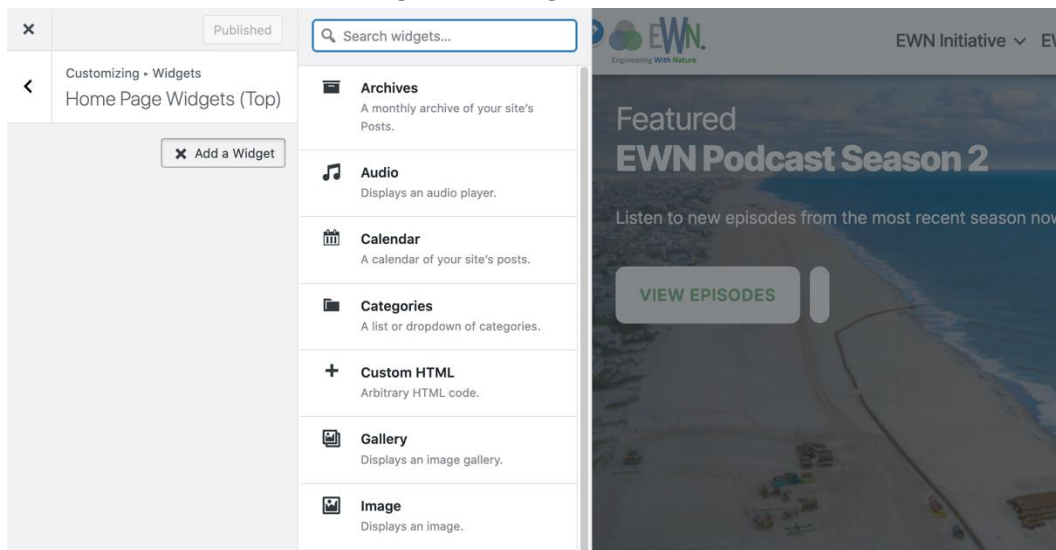
This opens up a sidebar with several options. From the sidebar, select **Widgets** (Figure 21).

Figure 21. Widgets sidebar.



This will display a list of widget areas that are available. Selecting **Home Page Widgets (Top)** will target the widget area directly below the featured post. After selecting a widget area, all widgets that are currently active in that area are displayed. To add a new widget, click the **+Add a Widget** button. This opens up a second side bar from which a widget can be selected (Figure 22).

Figure 22. Widget selection.



After selecting a widget, the widget can be customized—adding a gallery of images for example (Figure 23–Figure 27).

Figure 23. Gallery widget setup— name the gallery.

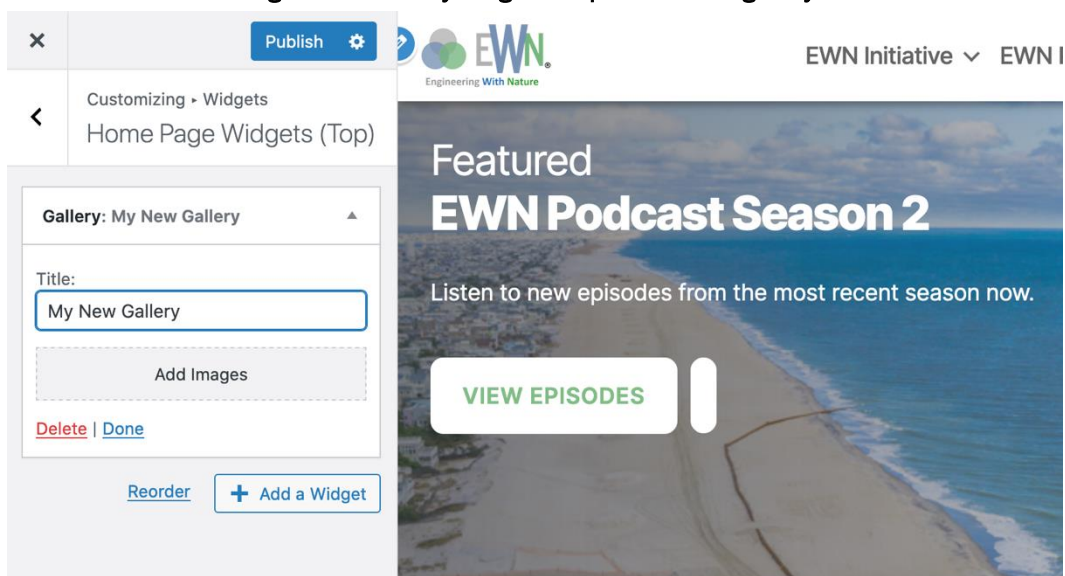


Figure 24. Gallery widget setup—select images.

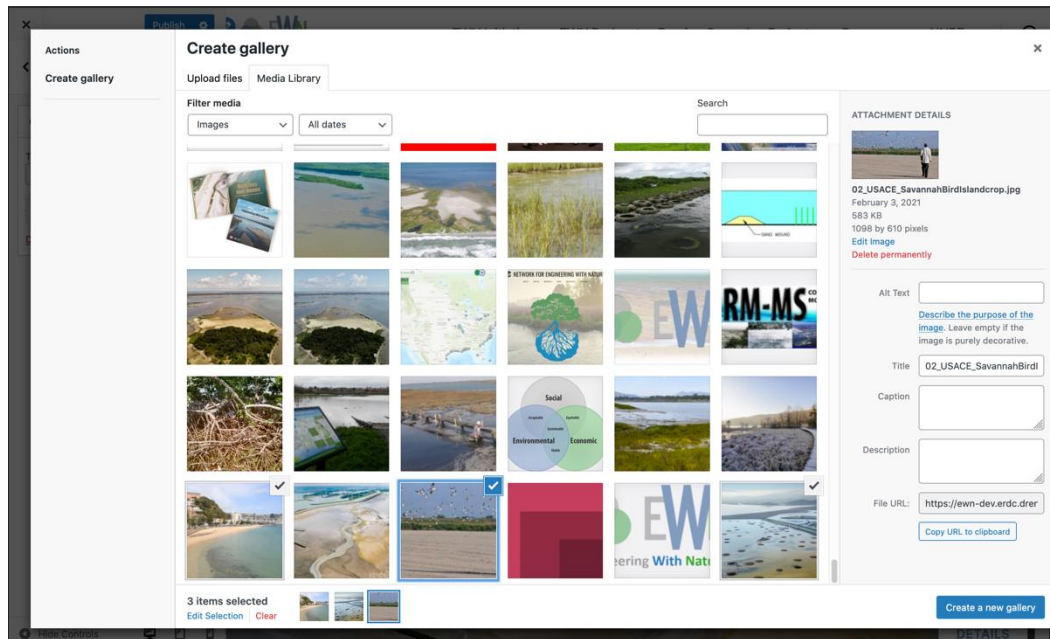


Figure 25. Gallery widget setup—reorder images.

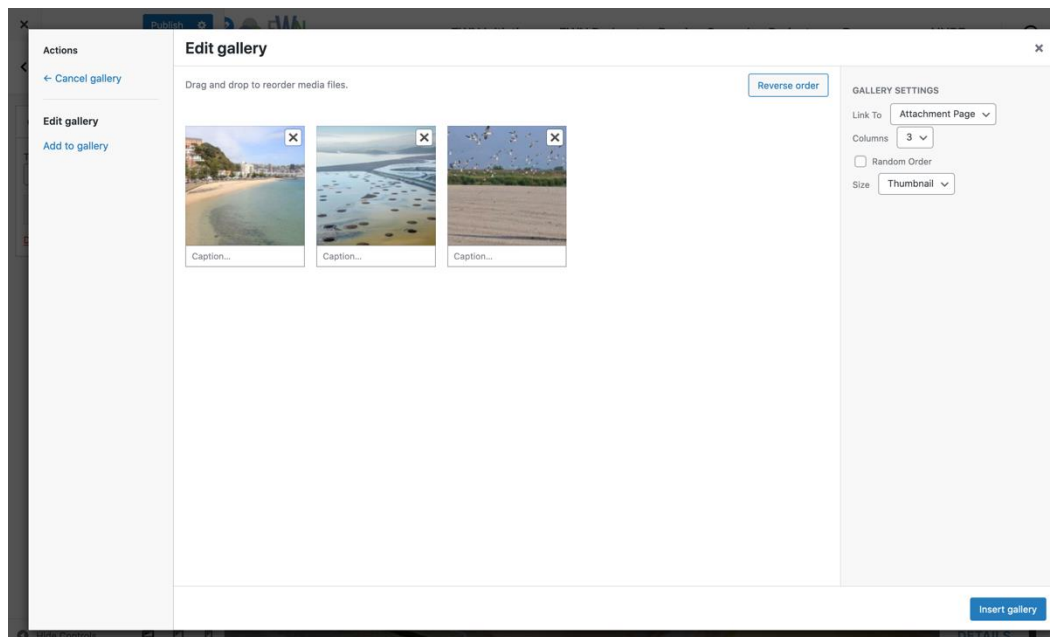
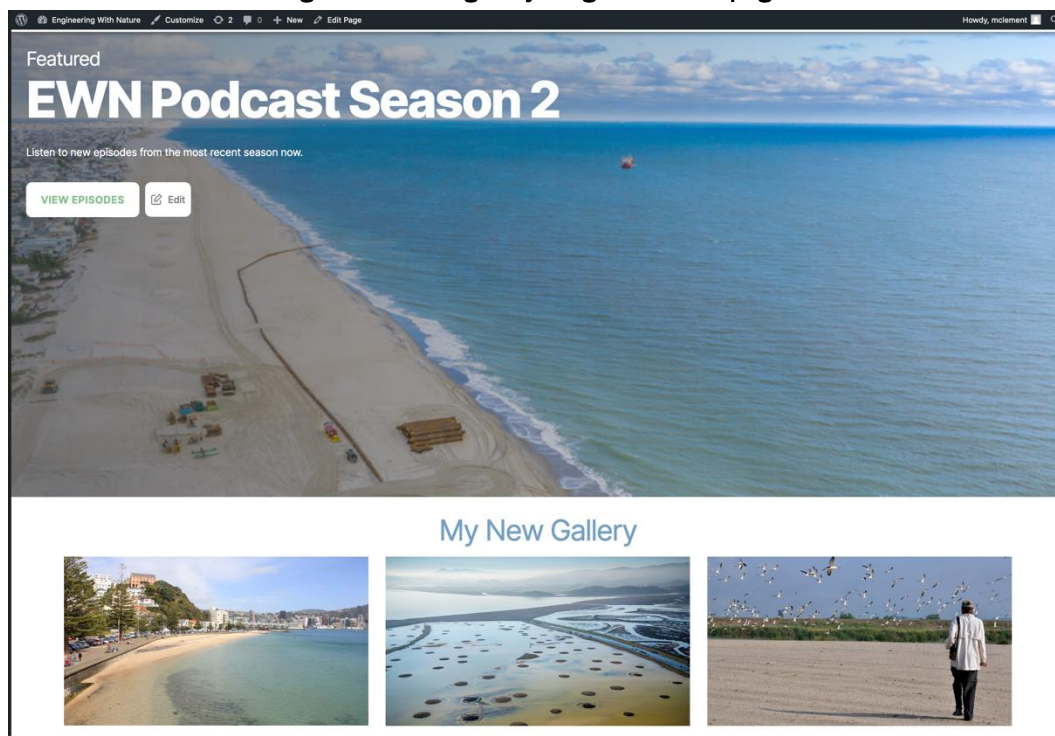


Figure 26. Publish gallery.



Figure 27. New gallery widget on home page.



The gallery widget now displays below the featured post. Multiple widgets may be added to a single widget area.

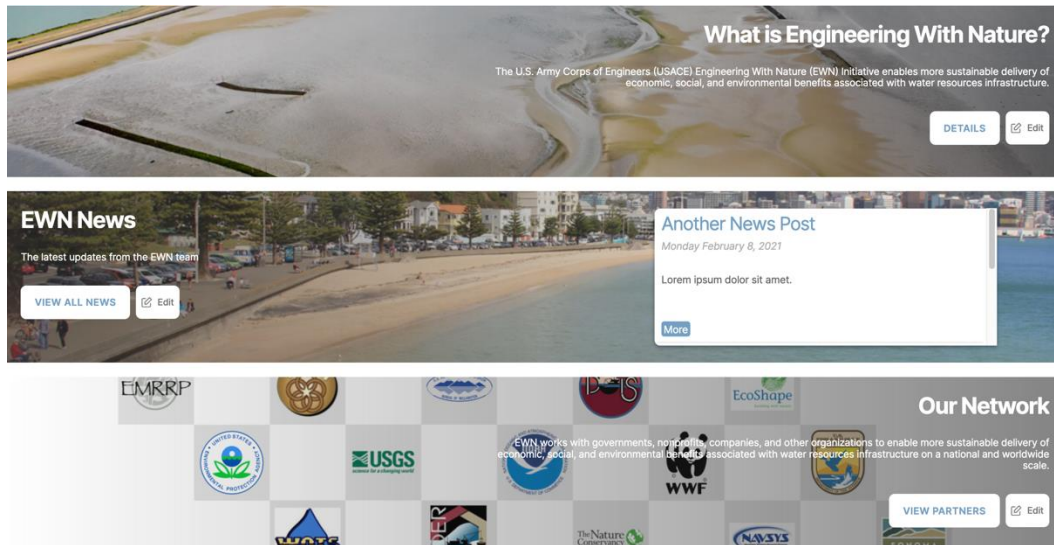
#### 4.4 Home page blocks

Below the top widget area, all posts that have been categorized as **Home Page Blocks** are displayed. To add a post as a home page block, the edi-



tor must check **Home Page Blocks** as the selected category when creating or editing the post. This will result in it automatically being displayed on the home page (Figure 28).

Figure 28. Home page blocks.



Home page blocks are used to highlight important content. Just like with the main featured post, home page blocks are displayed with their featured image, title, and excerpt text.

When an administrator or other privileged user is logged in, they will see an **Edit** button alongside the home page block's main button. Clicking that edit button will take the user to the post's edit page where they can make changes to the post content, update the featured image, or uncheck the **Home Page Blocks** category to remove it from the home page.

## 4.5 Footer

The footer is a collection of relevant links found at the bottom of the website. To customize the footer requires editing some custom HTML. To edit the footer's HTML, log in and click the **Customize** button in the administrative toolbar at the top of the page. This will open a sidebar that contains several options.

Select the **Widgets** option, and then select **Footer #1**. This will reveal a custom HTML widget. Clicking on the custom HTML widget will expand a text field that contains the HTML content of the footer (Figure 29).

Figure 29. Footer HTML widget.

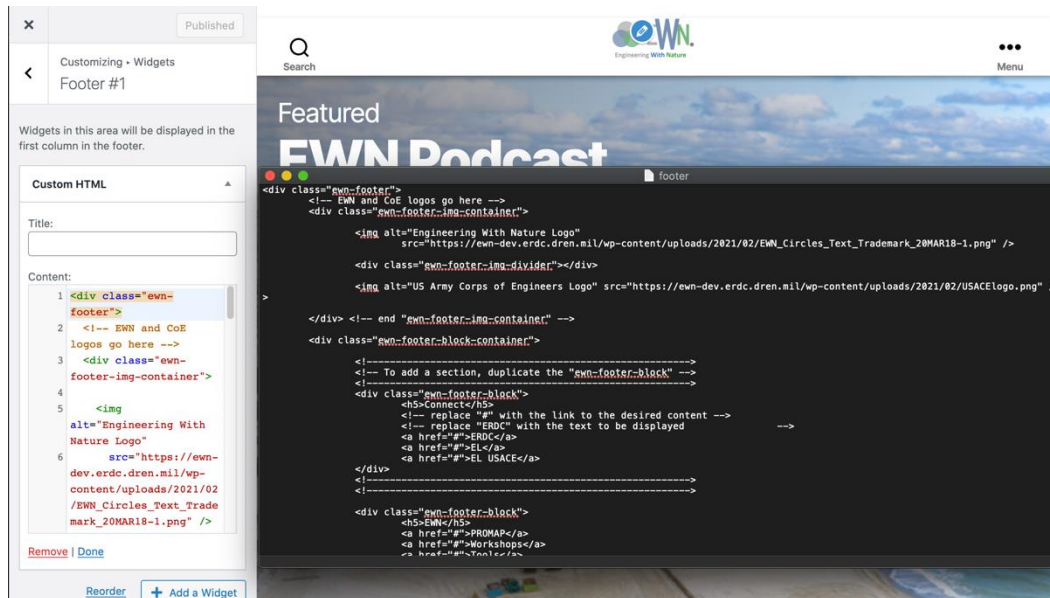


It is recommended that users do not edit this HTML directly but, instead, edit the text in an external text-editor program.

*(Note: NEVER use Microsoft Word to edit HTML. It may insert hidden characters that can break the HTML. Instead, use a plain text editor such as **Notepad** (Windows) or **TextEdit** (Mac).*

To do this, copy all the HTML from the widget, and paste it into a separate text file on the computer (Figure 30). Make the necessary changes, and then copy the text from the file back into the widget area on the site.

Figure 30. Editing footer HTML.



## 5 Podcasts

This section gives detailed steps on adding podcast episodes to the site.

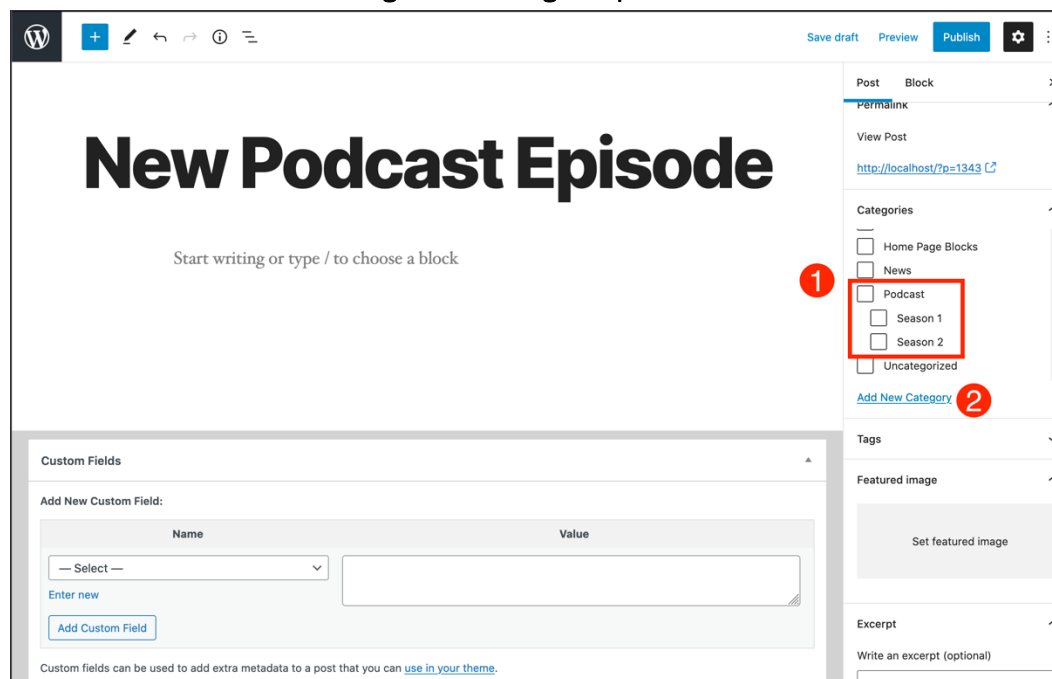
### 5.1 Create a podcast post

The first step when adding a podcast to the site is to create a new post and categorize it as a podcast.

First, log in by going to <https://ewn.erdcdren.milwp-login.php> and create a new post (for more detail on creating a post, see Section 3.2).

Once the post has been created, categorize it as a podcast by selecting **Podcast** from the categories section as well as the specific season category for this specific episode (see **1** in Figure 31). Setting the category for a podcast is necessary to ensure it displays on the Podcasts page.

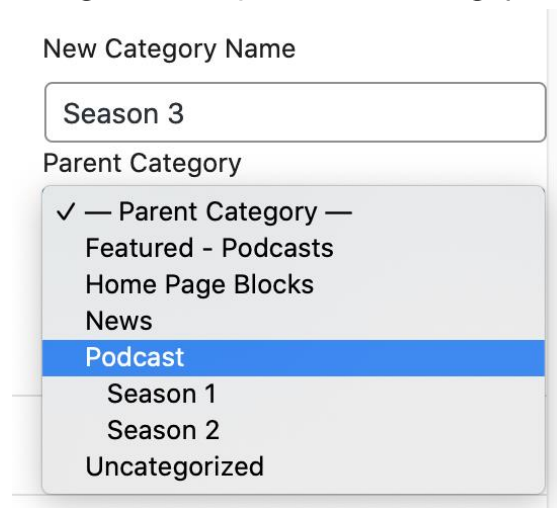
Figure 31. Categorize podcast.



If a podcast's season isn't listed, it can be added by creating a category for it. Click **Add New Category** (see **2** in Figure 31), name the season, and set the parent category as **Podcast** (Figure 32).



Figure 32. Add podcast season category.



New Category Name

Season 3

Parent Category

- ✓ — Parent Category —
- Featured - Podcasts
- Home Page Blocks
- News
- Podcast**
- Season 1
- Season 2
- Uncategorized

## 5.2 Embed podcast player

To add the podcast audio to the post, it is necessary to generate the embeddable Apple Podcast link to the episode and add it to the post. To do so, navigate to <https://tools.applemediaservices.com/apple-podcasts>. Once there, you will be met with a page featuring a large search bar. Type “Engineering With Nature” into the search bar and press the return/enter key on your keyboard.

After searching for the EWN podcast, locate it in the search results and click on it. This will take you to the podcast screen.

On the podcast screen is a list of episodes. Click on an episode from the list to select it. If the desired episode is not displayed, click the **Show More Episodes** button at the bottom center of the screen.

On the episode screen, scroll down to the **Podcast Player** section and click **Copy Embed**.

Once the embed has been copied, go back to the podcast post on the EWN website and add a **custom HTML** block (for more info on adding blocks see Section 3.1, Figure 4 and Figure 5), pasting the embed code inside (Figure 33 and Figure 34).

Figure 33. Insert custom HTML block.

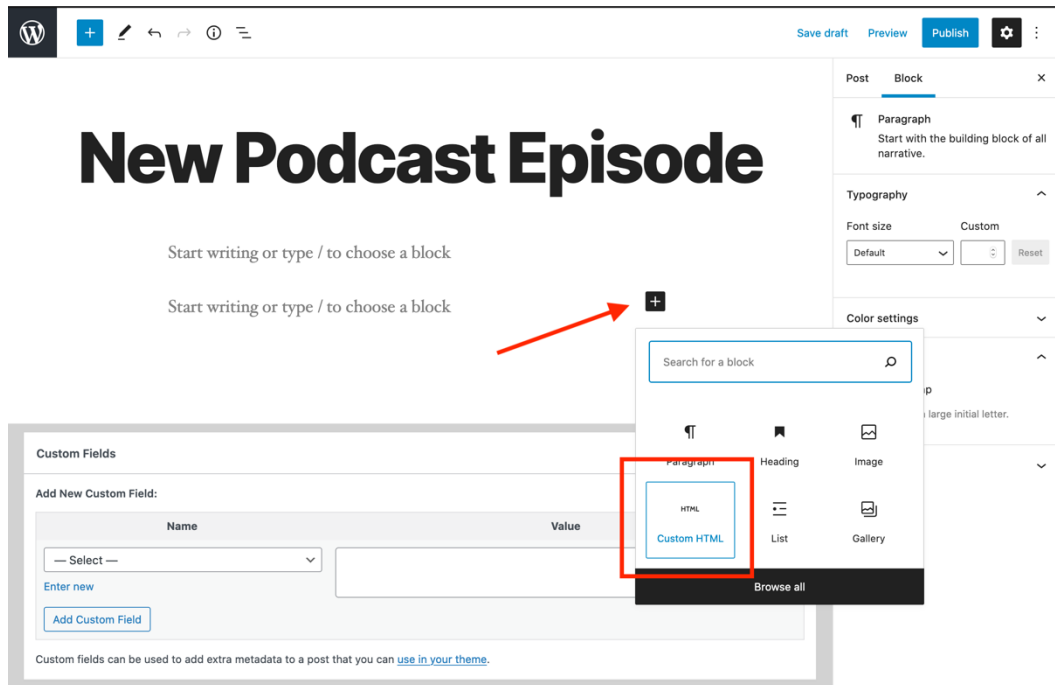
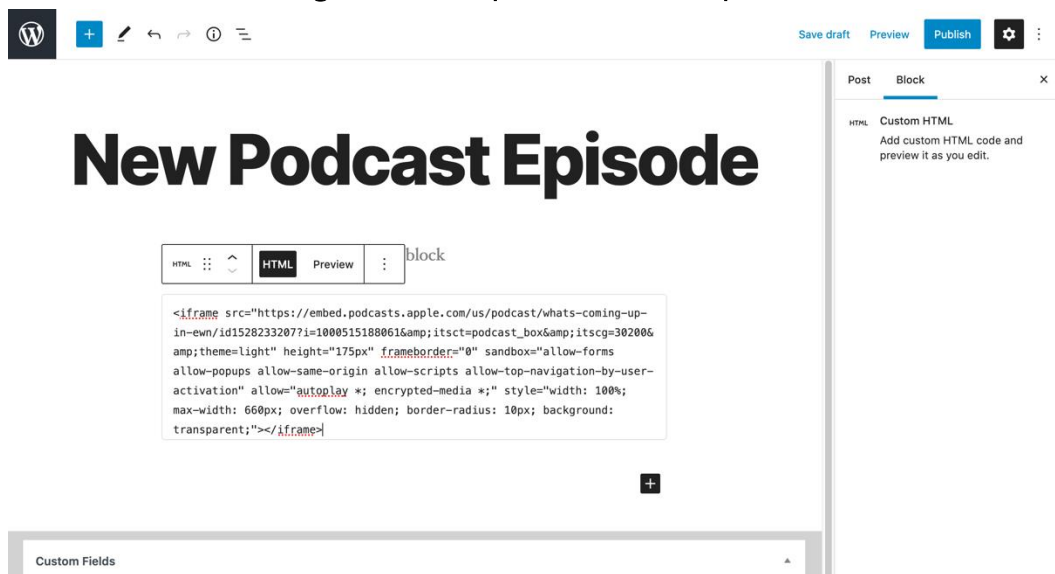


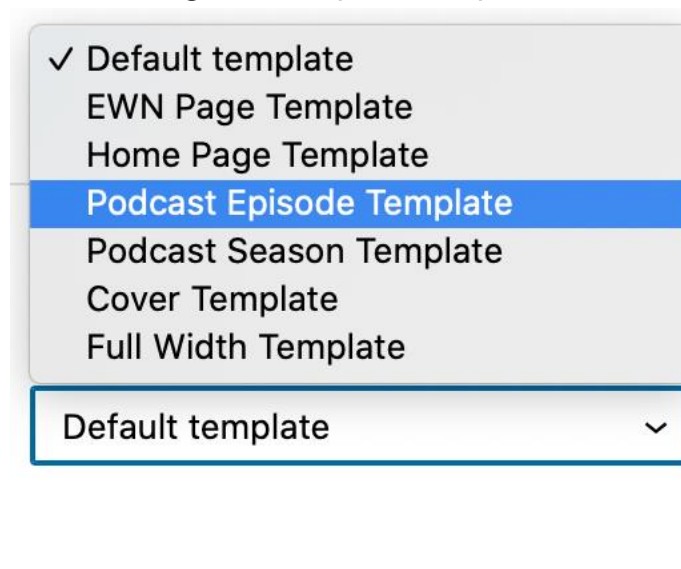
Figure 34. Paste podcast embed into post.



### 5.3 Set template

To ensure podcast post styling is consistent, locate the **Template** option in the right-hand sidebar of the post edit screen, and select **Podcast Episode Template** from the options (Figure 35).

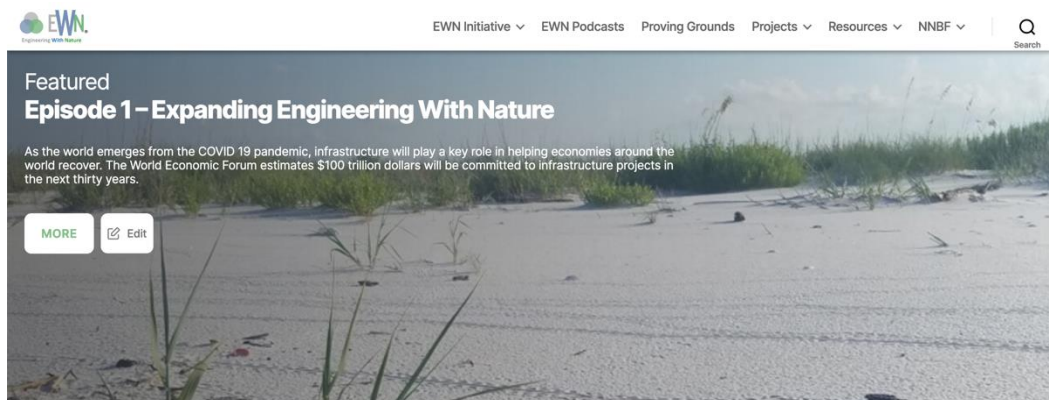
Figure 35. Set podcast template.



## 5.4 Set podcast featured image and excerpt

Podcasts feature a large image at the top of the post along with a text excerpt (Figure 36). To set these items, head to the right-hand sidebar of the post edit screen:

Figure 36. Podcast featured image and excerpt.



- **Setting Featured Image:** locate the **Featured Image** section in the post edit sidebar. Click **Set featured image** and choose an existing photo or upload one.
- **Setting the Excerpt:** locate the **Excerpt** section in the post edit sidebar and type or paste the desired excerpt text into the textbox.

Save or publish the post. The featured image and excerpt should now display at the top of the podcast.

*Note: If an excerpt is not specified, the first few lines of text from the podcast post will automatically be used.*

## 5.5 Add additional content

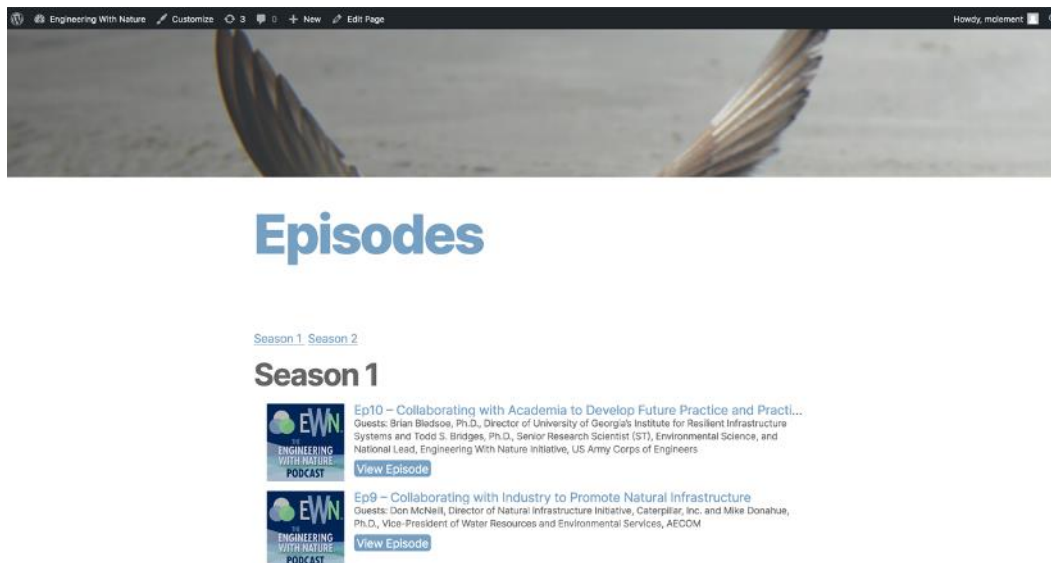
Now that the podcast has the audio player embedded, has been categorized, and the template selected, all that is left is to add any additional text or media needed in the post. Do this by adding text or image blocks (for more info on adding blocks see Section 3.1, Figure 4 and Figure 5) and then clicking **Publish** when finished.

If the post should not be immediately published, click **Save Draft** and revisit it at a later time by going to the **Posts -> Drafts** section of the admin interface ([https://ewn.erdcdren.milwp-admin/edit.php?post\\_status=draft&post\\_type=post](https://ewn.erdcdren.milwp-admin/edit.php?post_status=draft&post_type=post)).

## 5.6 View podcasts

Once the podcast is published, navigate to the podcasts page by clicking **EWN Podcasts** from the navigation bar on the site home page. The new episode will automatically display on this page below a heading that denotes the podcast season (Figure 37).

Figure 37. Podcast listing.



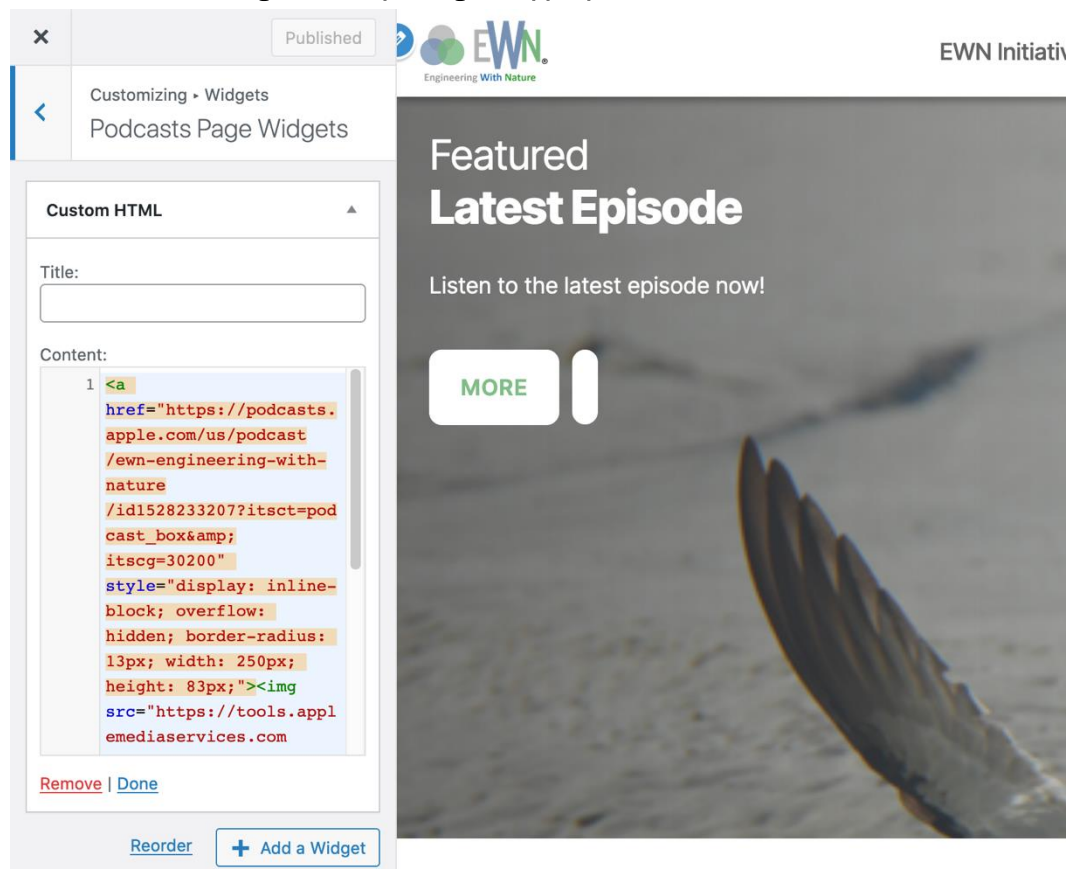
## 5.7 “Listen on Apple Podcasts” link

The podcasts page features a large badge that links to the Apple Podcast page, where users can opt to listen via the Apple Podcasts app as well as

view episodes directly. This link is a **Custom HTML Widget**, which can be modified by logging in as a privileged user at <https://ewn.erdcdren.milwp-admin>, then selecting **Customize** from the main toolbar at the top of the page, then clicking **Widgets**, and finally clicking **Podcasts Page Widget** (for more information on accessing widgets, see Section 4.3). This will reveal a custom HTML widget. This widget holds an embedded link to the EWN Podcast on Apple Podcasts. This embed is generated by navigating to the EWN Apple Podcasts page (<https://tools.applemediaservices.com/podcast/1528233207?country=us>) and scrolling down to the section labeled **Badges and Lockups**. Click **Copy Embed**.

Once the embed has been copied, return to the Podcasts Page Widget, and click on the **Custom HTML** widget to expand the text field. When the text field is expanded, the podcast embed can be pasted in the **Content** field (Figure 38). To save, click the big, blue **Publish** button in the top right of the sidebar.

Figure 38. Updating the Apple podcast embed HTML.



*Note: Updating this embed will only be necessary if the link breaks.*

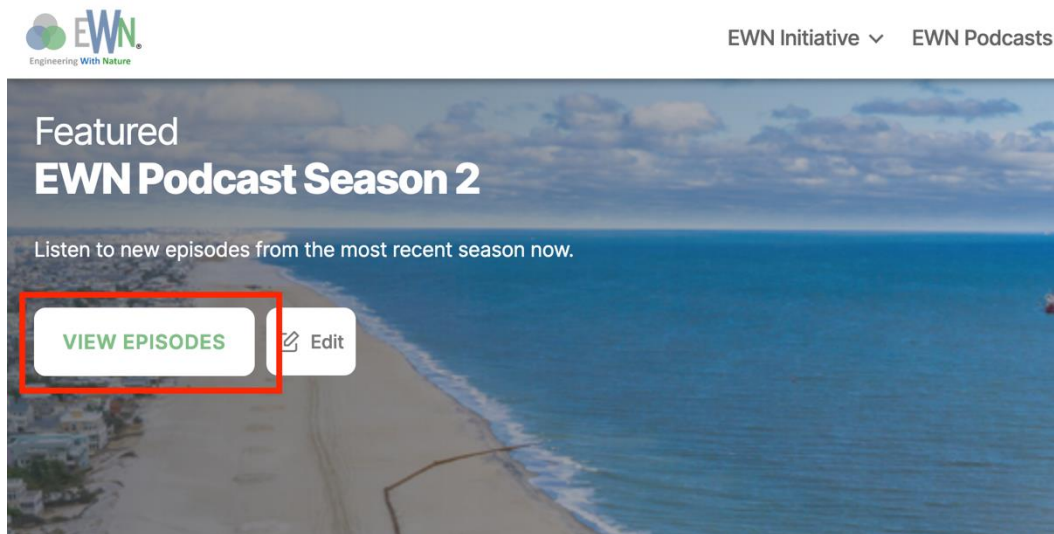
## 6 Additional Customization

This section covers miscellaneous customization processes that are used in various places across the site.

### 6.1 Setting custom button text on home page blocks and podcasts

Home page blocks (see Section 4.4) and podcasts (see Section 5) both feature a large “call-to-action” button (Figure 39).

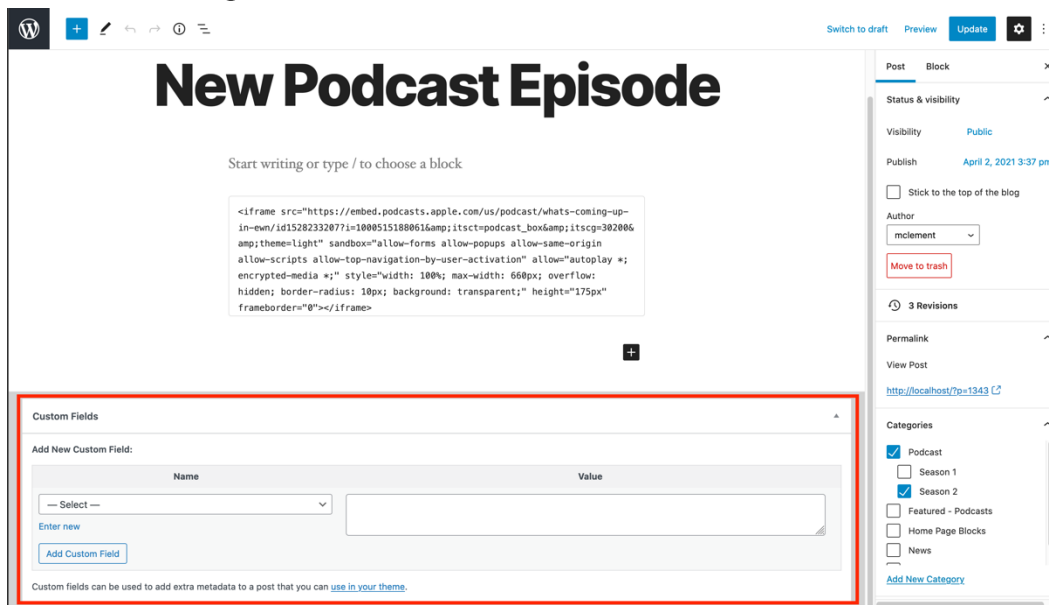
Figure 39. Call to action button.



By default, any post that is categorized as a home page block or podcast features a button that says “**More**” and links to the post directly. There are some cases where different text or a different destination URL may be desirable. To do this, log in as a user with editing privileges and locate the post you wish to edit via the admin interface (**Admin Screen -> Posts** in the left-hand sidebar).

Once the post has been located, begin editing it. At the bottom of the edit screen is a section labeled **Custom Fields**. This section features a dropdown and text field labeled **Name** and **Value** (Figure 40).

Figure 40. Customize text and URL of call-to-action button.



- **To Set Custom Button Text:** Select **link\_text** from the **Name** dropdown, then type the custom text in the **Value** text field. Once the text has been entered, click the **Add Custom Field** button in the bottom left.
- **To Set Custom Button URL:** Select **secondary\_url** from the **Name** dropdown, then type the desired destination URL into the **Value** text field. Once the text has been entered, click the **Add Custom Field** button in the bottom left.

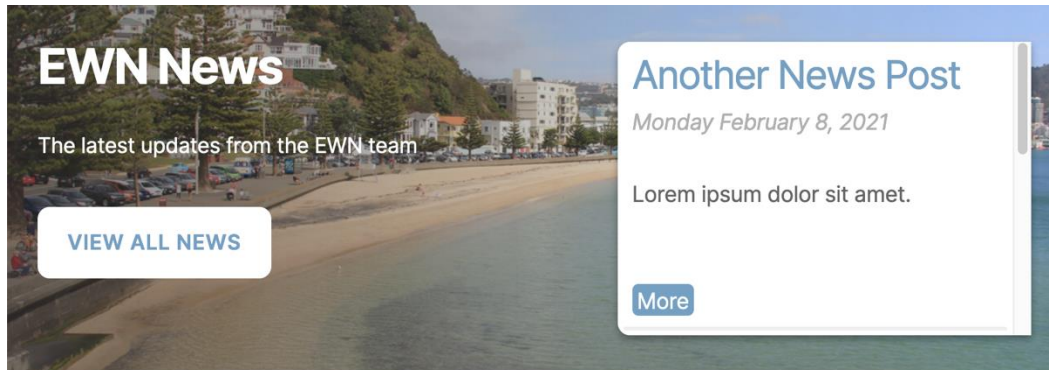
After making these changes, save or publish the post.

## 6.2 Adding news posts

The home page features an “EWN News” section that displays the most recent news posts. This section is a standard post but has been set to have a custom button that links to a page of all news posts, as well as displaying the custom news post collection on the home page (Figure 41).

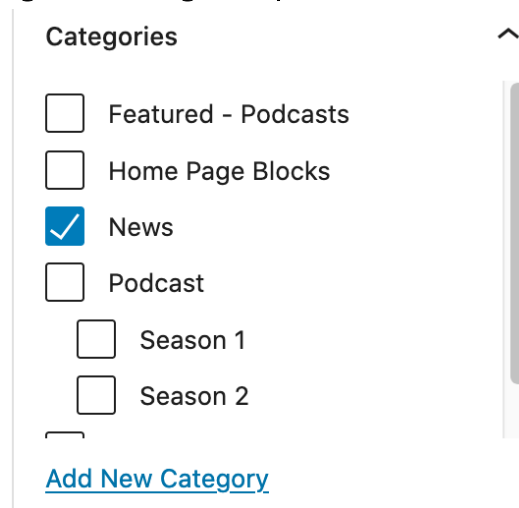


Figure 41. News section on home page.



To display news posts in this section, a post must be created (see Section 3.2) and categorized as **News** by clicking the **News** category in the right-hand sidebar of the post editor (Figure 42). This will automatically cause the news post to display in this section on the home page.

Figure 42. Categorize a post as news.



Clicking the **View All News** button on this home page section will navigate to a page that displays all posts that have been categorized with the category **News**. This is handled dynamically, and all that needs to be done to add posts there is to categorize posts as **News**.

*Note: The home page block post for EWN News uses **custom fields** to display the latest news posts in its sidebar. The custom fields for this post should NOT be modified, with the exception of the **link\_text** custom field if a different button label is desired (see Section 6.1 for more on custom button text).*



## 6.3 Adding searchable tables

In some cases, it is useful to have a table of searchable and sortable entries, such as large collections of publications or other records (Figure 43). Tables such as these are used in multiple places across the site, and more tables can be easily added.

Figure 43. Table example: “Workshops & Presentations.”

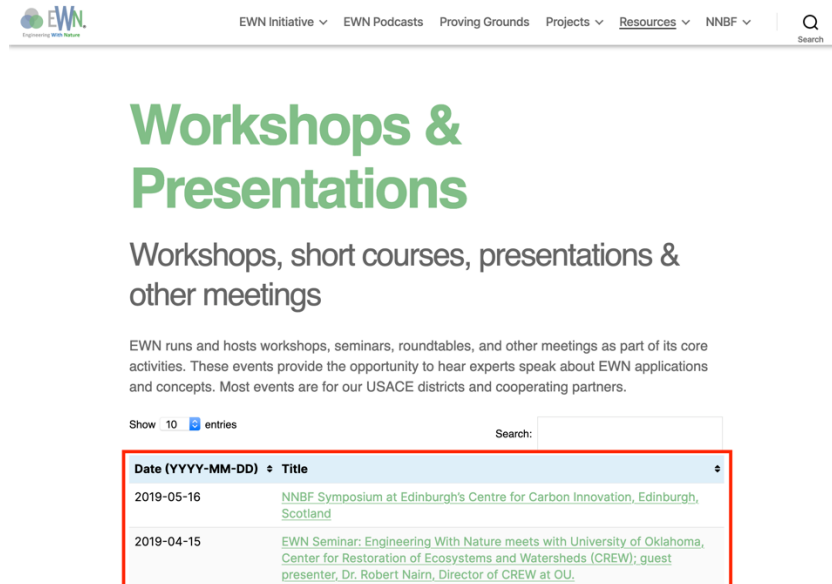


Figure 43 shows a screenshot of the "Workshops & Presentations" page on the EWN website. The page features a header with the EWN logo and navigation links. The main content area has a large green title "Workshops & Presentations" and a subtitle "Workshops, short courses, presentations & other meetings". Below this is a paragraph describing EWN's activities. A table is displayed, showing a list of workshops and presentations. The table has two columns: "Date (YYYY-MM-DD)" and "Title". The table is highlighted with a red box.

Date (YYYY-MM-DD)	Title
2019-05-16	NNBF Symposium at Edinburgh's Centre for Carbon Innovation, Edinburgh, Scotland
2019-04-15	EWN Seminar: Engineering With Nature meets with University of Oklahoma, Center for Restoration of Ecosystems and Watersheds (CREW); guest presenter, Dr. Robert Naim, Director of CREW at OU.

To add a table of data, log into the admin interface by going to <https://ewn.erdrc.dren.milwp-admin> and clicking on **TablePress** in the sidebar. From here, a list of all existing tables is visible (Figure 44).

Figure 44. All tables.

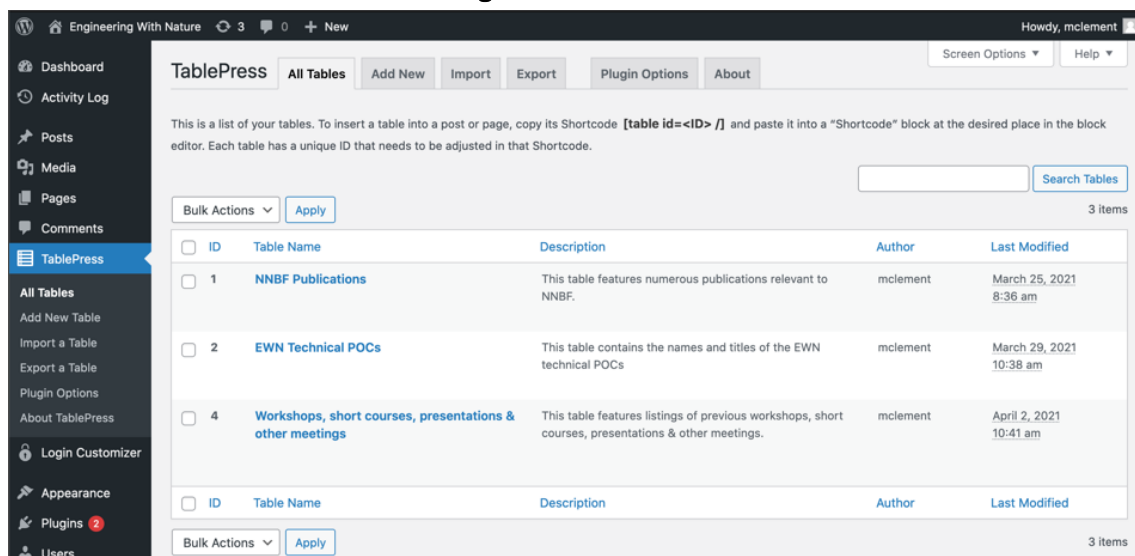
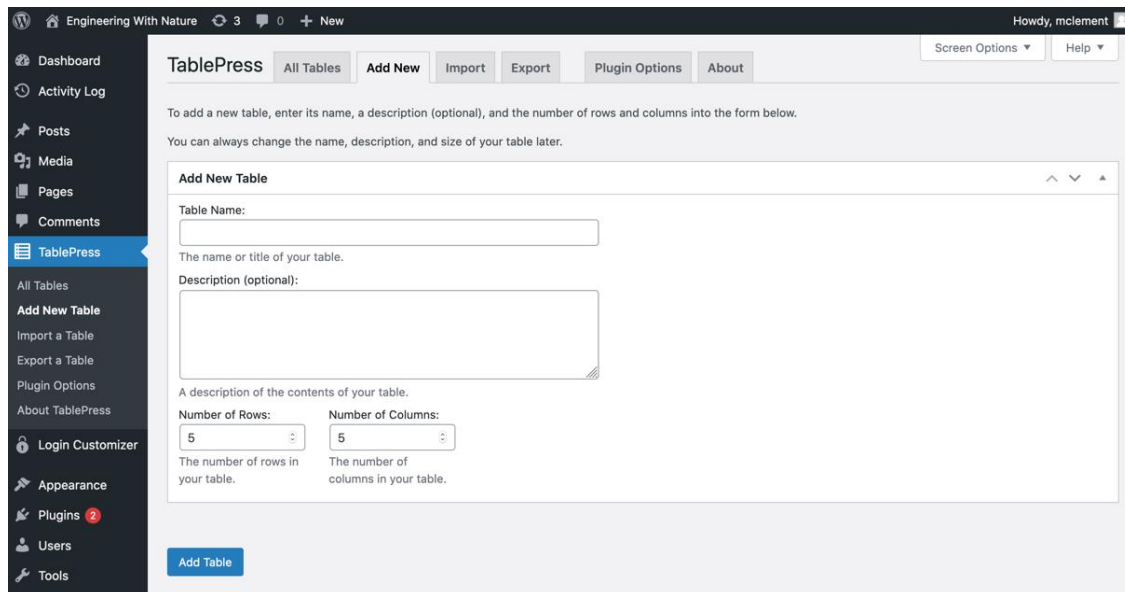


Figure 44 shows a screenshot of the TablePress admin interface. The sidebar on the left contains various navigation options, including 'TablePress'. The main content area displays a list of tables. The table has columns for ID, Table Name, Description, Author, and Last Modified. Three tables are listed: 'NNBF Publications', 'EWN Technical POCs', and 'Workshops, short courses, presentations & other meetings'.

ID	Table Name	Description	Author	Last Modified
1	NNBF Publications	This table features numerous publications relevant to NNBF.	mclement	March 25, 2021 8:36 am
2	EWN Technical POCs	This table contains the names and titles of the EWN technical POCs	mclement	March 29, 2021 10:38 am
4	Workshops, short courses, presentations & other meetings	This table features listings of previous workshops, short courses, presentations & other meetings.	mclement	April 2, 2021 10:41 am

Clicking on a table's name will allow the user to edit the contents of the table. To create a new table, click **Add New** in the tab list at the top of the screen. This will take the user to a screen where they can name their new table, add a description, and create the empty table with the desired number of rows and columns. All of this information can be edited later. Click **Add Table** at the bottom of the screen to generate the new table (Figure 45).

Figure 45. Create new table.



The screenshot displays the WordPress dashboard with the TablePress plugin interface. The left sidebar shows the 'TablePress' menu item selected. The main content area features a 'TablePress' header with tabs for 'All Tables', 'Add New', 'Import', 'Export', 'Plugin Options', and 'About'. Below the header, instructions state: 'To add a new table, enter its name, a description (optional), and the number of rows and columns into the form below. You can always change the name, description, and size of your table later.' The 'Add New Table' form includes a 'Table Name' text input, a 'Description (optional)' text area, and two numeric inputs for 'Number of Rows' and 'Number of Columns', both set to 5. A blue 'Add Table' button is at the bottom.

Engineering With Nature 3 0 + New Howdy, mclement

TablePress All Tables Add New Import Export Plugin Options About

To add a new table, enter its name, a description (optional), and the number of rows and columns into the form below.  
You can always change the name, description, and size of your table later.

**Add New Table**

Table Name:

The name or title of your table.

Description (optional):

A description of the contents of your table.

Number of Rows:  Number of Columns:

The number of rows in your table. The number of columns in your table.

Add Table

After creating the new table, the user is taken to a screen where they can input data and configure more advanced table settings (Figure 46).

Figure 46. Edit a table.

To edit the content or modify the structure of this table, use the input fields and buttons below. To insert a table into a post or page, copy its Shortcode `[table id=5 /]` and paste it into a "Shortcode" block at the desired place in the block editor.

[Preview](#) [Save Changes](#)

### Table Information

Table ID:  Shortcode: `[table id=5 /]`

Table Name:

Description:

Last Modified: April 5, 2021 1:15 pm by mclement

### Table Content

	A	B	C	D	E
1					
2					
3					
4					
5					

### Table Manipulation

[Insert Link](#) [Insert Image](#) [Advanced Editor](#)

Combine cells: [in a column \(rowspan\)](#) [in a row \(colspan\)](#) [?](#)

Selected rows: [Hide](#) [Show](#)

Selected columns: [Hide](#) [Show](#)

Selected rows: [Duplicate](#) [Insert](#) [Delete](#)

Selected columns: [Duplicate](#) [Insert](#) [Delete](#)

Add  row(s) [Add](#)

Add  column(s) [Add](#)

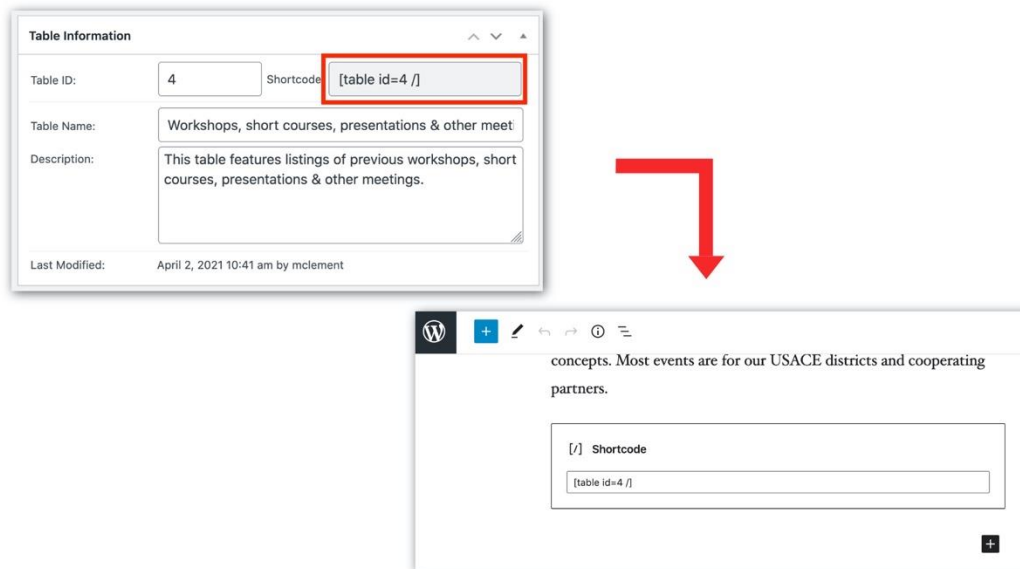
To add data to the table, simply fill in cells with the desired content. By default, the first row of the table acts as the header, so any data entered in those cells will be treated as column titles. This can be disabled by unchecking the **Table Head Row** setting on this screen.

When the table has been filled out, click **Save Changes** (located at the top AND bottom of the edit screen). When the table is saved, copy the **Shortcode** to embed the table into a post or page. A shortcode is a special reference that will point to this table, and it takes the form

**[table id=x]**

The variable “**x**” is the specific ID of the table. This shortcode is displayed at the top of the table edit screen and can be copied and pasted directly into a post to embed the table (Figure 47).

Figure 47. Embed table shortcode in a post or page.



After pasting the shortcode into a post or page, save the post or page and exit the editor interface to view the page. The shortcode will automatically expand into the specified table (Figure 43).

## 6.4 Adding custom forms

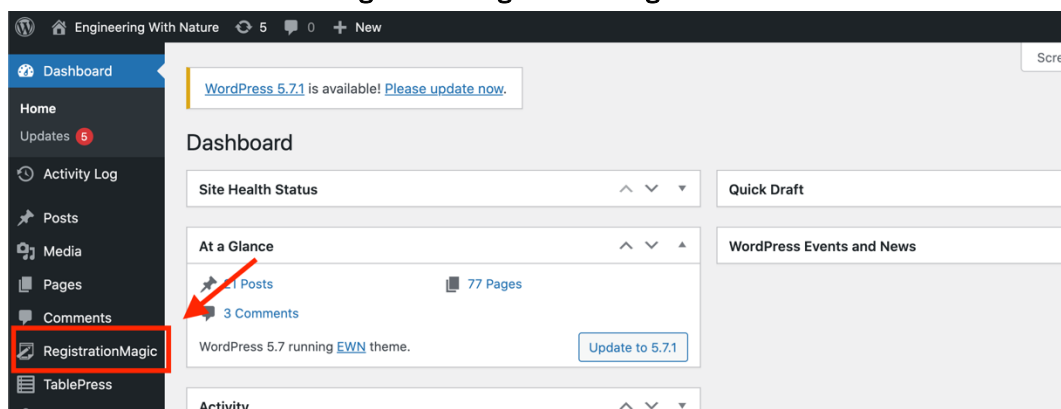
This section covers how to create a custom form, useful for event registrations or collecting other information, such as user inquiries or book orders (see, for example, Figure 48).

Figure 48. Example: Atlas Order Form.

The screenshot shows the 'Atlas Order Form' on the Engineering With Nature website. The form includes fields for First Name, Last Name, Email, Enter email again, Phone Number, Full Address (No P.O. Boxes), Atlas volume 1 number of copies, Atlas volume 2 number of copies, and Comments. A note on the right states: 'Please provide the requested information to order a hardcopy(s) of Engineering With Nature®, An Atlas Volumes 1 and/or 2. Copies of Volume 2 will be available for distribution in June, 2021. Note: Please enter a valid permanent address. P.O. Boxes cannot be shipped to via FedEx.'

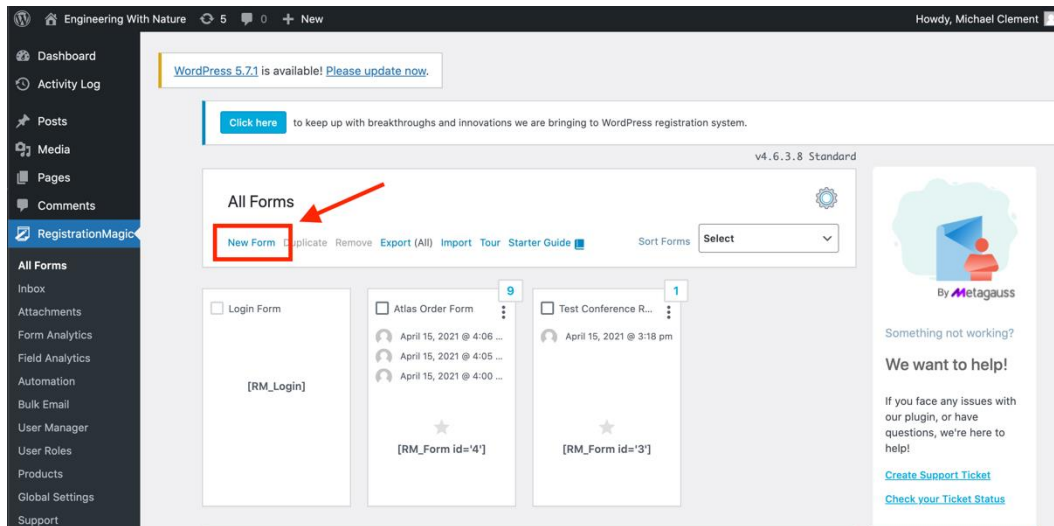
To create a form, sign in as an administrative user and click on the **Registration Magic** option in the sidebar (Figure 49).

Figure 49. Registration Magic tool.



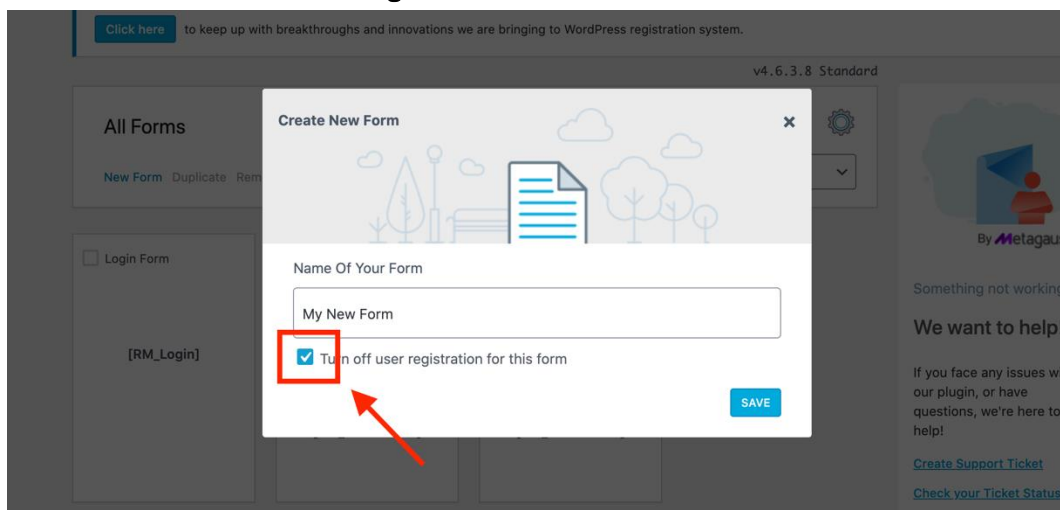
From there, select **New Form** to create a new form (Figure 50).

Figure 50. Create a new form.



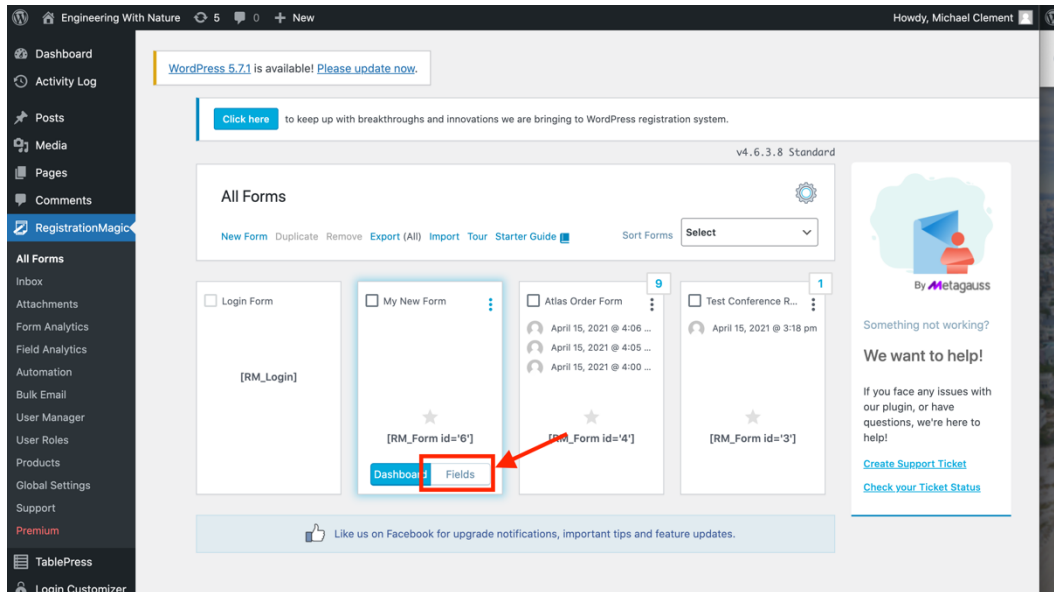
A popup will appear asking for a form name. Name the form and check the box that says, “**Turn off user registration with this form**” (Figure 51).

Figure 51. Name a new form.



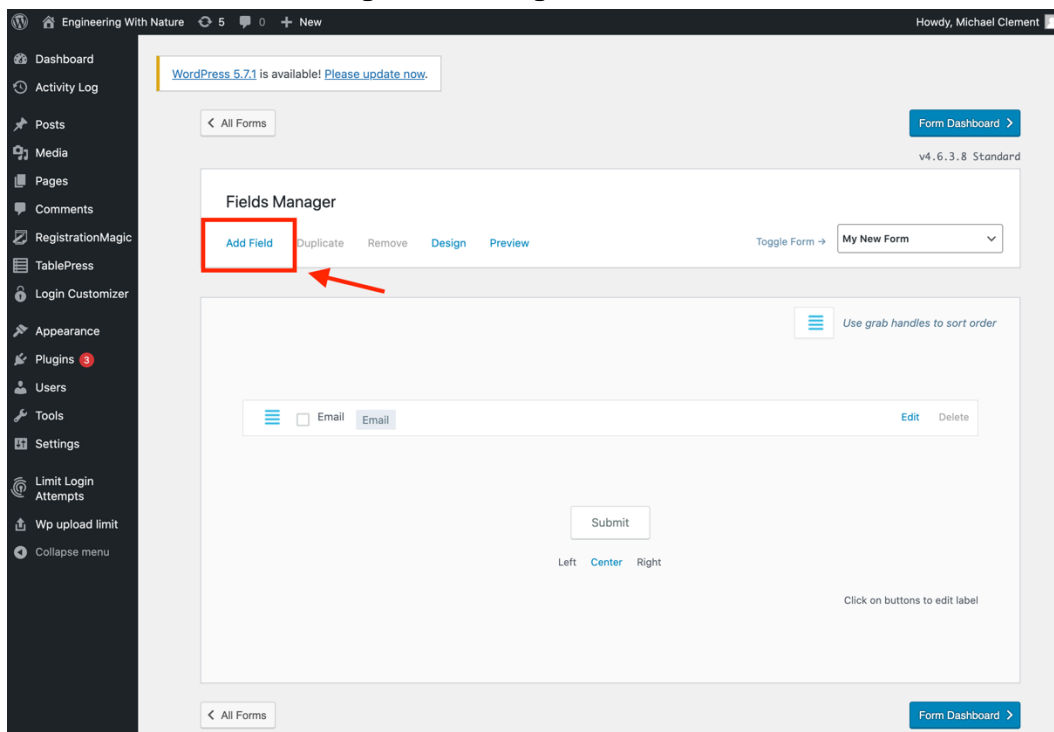
Once the form is named, click **Save**. Then, hover over the newly added form and click **Fields** to configure the information you want to collect from users (Figure 52).

Figure 52. Configure form fields.



After clicking the **Fields** button, you will be taken to a screen where you can add various fields to the form, such as name, email, phone number, and more. To add fields, click the **Add Field** button in the upper left of the screen (Figure 53).

Figure 53. Adding fields to a form.



Clicking this button will open a pop-up with a list of form fields to choose from. Click on the desired field name, and it will open a configuration screen. Take note of the **Advanced Settings** button at the bottom of the configuration screen (Figure 54).

Figure 54. Form field customization.

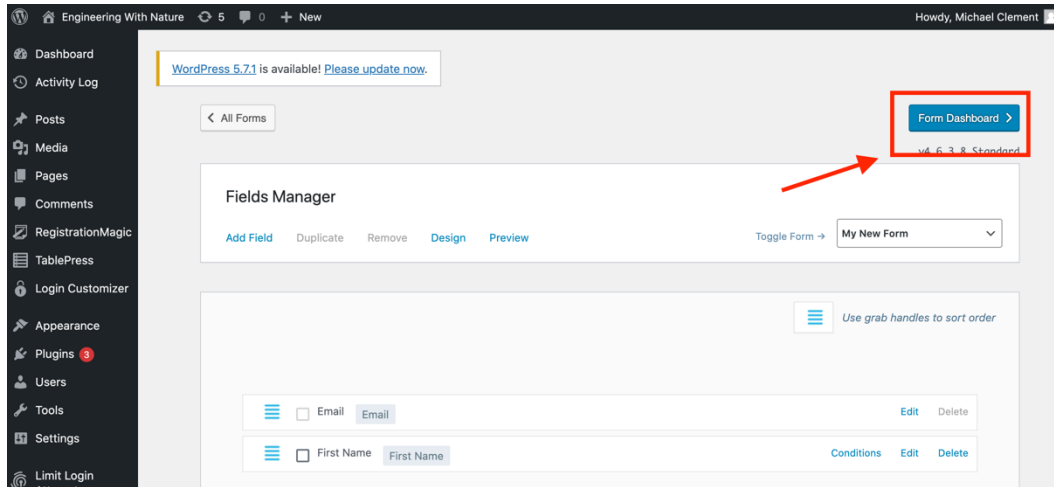
The screenshot shows a WordPress dashboard interface. On the left is a sidebar menu with options like Dashboard, Activity Log, Posts, Media, Pages, Comments, RegistrationMagic, TablePress, Login Customizer, Appearance, Plugins (with a red notification icon), Users, Tools, Settings, Limit Login Attempts, Wp upload limit, and Collapse menu. The main content area is titled 'New Field' and contains a configuration form. At the top of the form, it says 'WordPress 5.7.1 is available! Please update now.' and 'v4.6.3.8 Standard'. The form has four main sections: 'Field Type' (with a dropdown menu), 'Label' (with a text input field), 'Placeholder Text' (with a text input field), and 'Hover Text' (with a text input field). Each section has a descriptive tooltip on the right. Below these sections are two expandable sections: 'Icon Settings' and 'Advanced Settings'. The 'Advanced Settings' section is highlighted with a red rectangular box. At the bottom of the form are two buttons: 'Cancel' and 'ADD TO FORM'.

On this configuration screen, configure the field as necessary (i.e., provide a custom label or some placeholder text). If the field is a required field, click **Advanced Settings** and then click the checkbox labeled **Required Field**. Once the field is configured, click **Add To Form** at the bottom of the configuration screen.

At this point, the new field will display in the fields manager. Once all fields are added, click the blue **Form Dashboard** button in the top right of the screen (Figure 55).



Figure 55. View form dashboard.

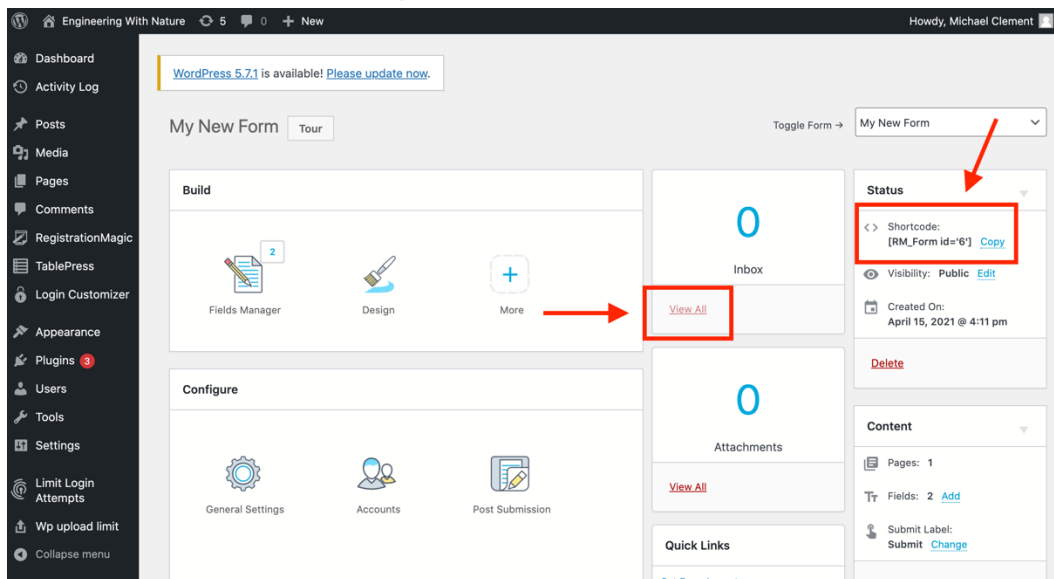


The form dashboard screen can also be accessed by clicking **Registration Magic** in the sidebar and clicking **Dashboard** when hovering on the desired form. The form dashboard page houses all the information relating to the form, including all submissions and the **Shortcode** used to embed the form into a post or page (Figure 56). A shortcode is a special reference that will point to this table, and it takes the form:

**[RM\_Form id='x']**

The variable “**x**” is the specific ID of the form.

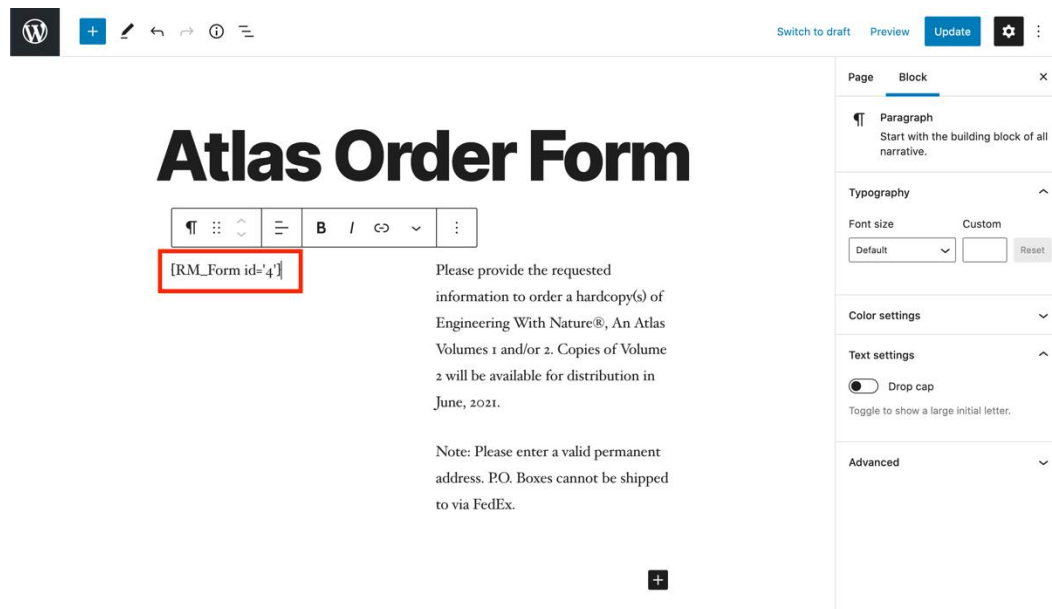
Figure 56. Form dashboard.



The **View All** button will display all submissions a form has received. This is where you go to collect the information users have submitted. The shortcode for the form is located in the upper right of the dashboard (as seen in Figure 56).

To place the form on a page so users can submit it, copy the shortcode from the form's dashboard and paste it into a new or existing page (Figure 57) (for more on creating pages, see Section 3.1).

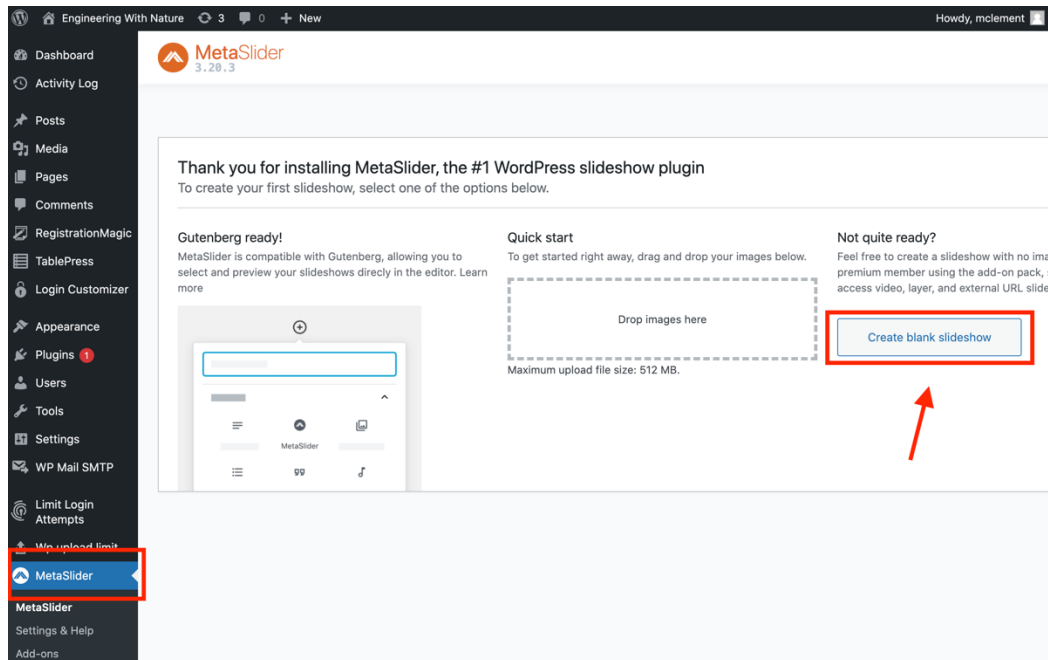
Figure 57. Add form shortcode to page.



## 6.5 Adding slideshows

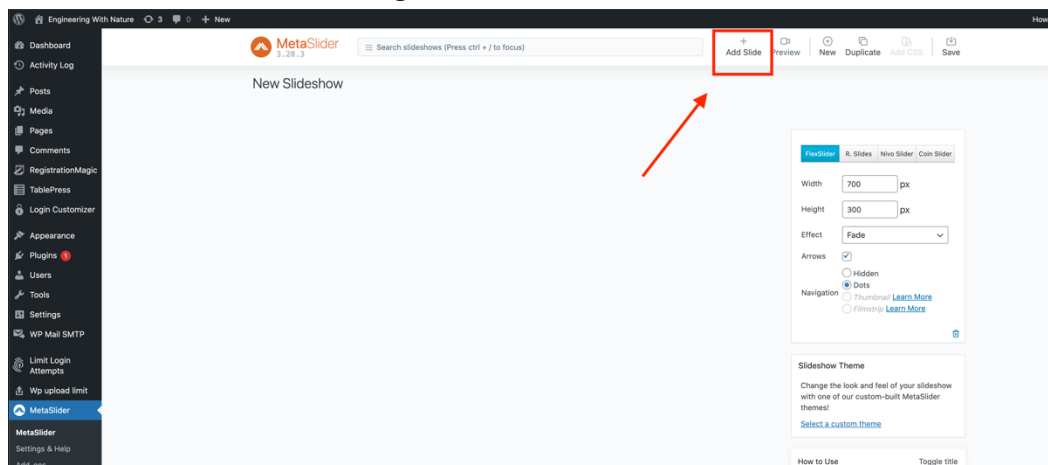
To add an animated slideshow to a page or post, use the MetaSlider plugin (found in the plugins section of the admin dashboard) to create a blank slideshow (Figure 58).

Figure 58. Create new slideshow.



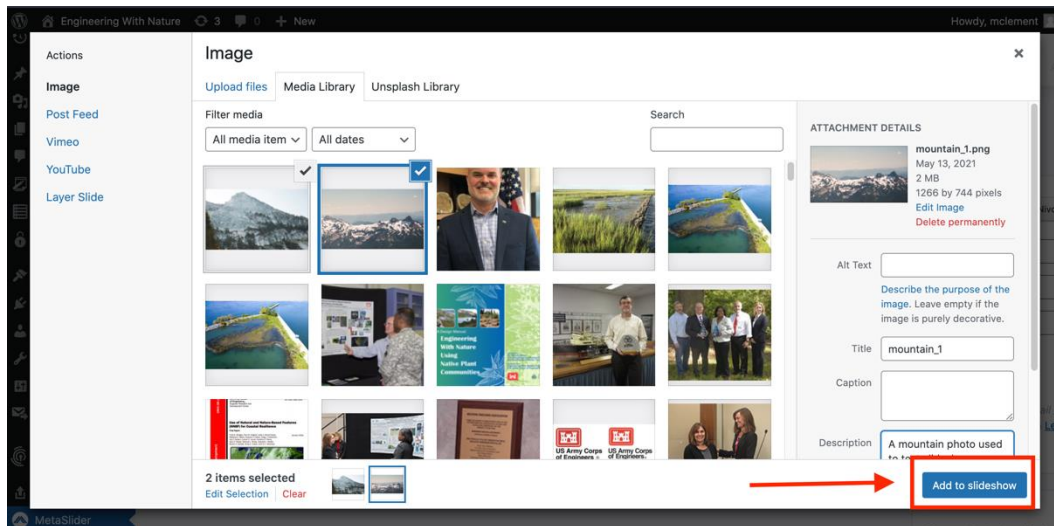
Next, click **Add Slides** (Figure 59).

Figure 59. Add to slideshow.



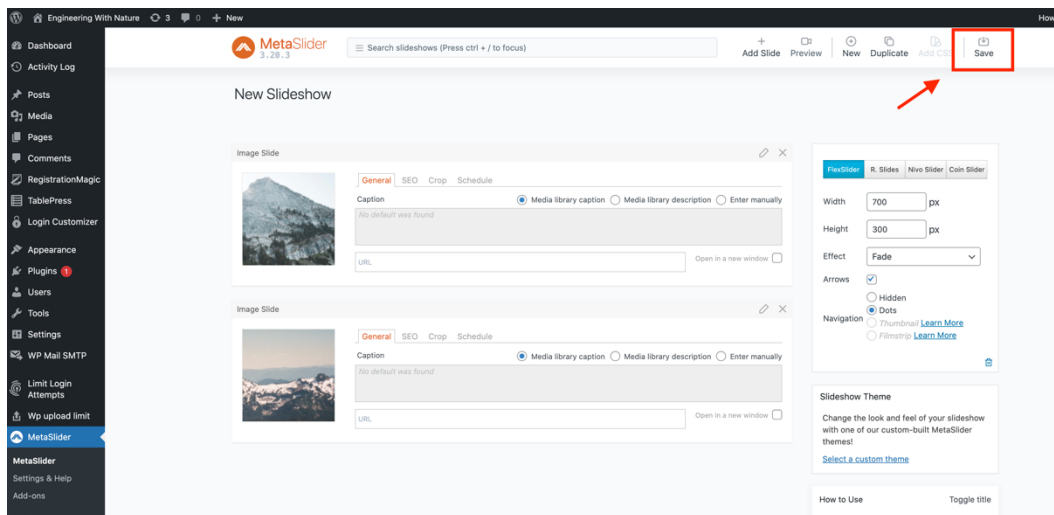
From there, either drag in new media files from the computer or select images from the media library, then click **Add to slideshow** (Figure 60).

Figure 60. Add slides to slideshow.



After selecting the images, make any edits to their captions and information and click the save button (Figure 61).

Figure 61. Save slideshow.



Once the slideshow is configured, paste the shortcode into the desired page or post (Figure 62). This will result in the slideshow appearing in the content of the post (Figure 63).

Figure 62. Copy slideshow shortcode.

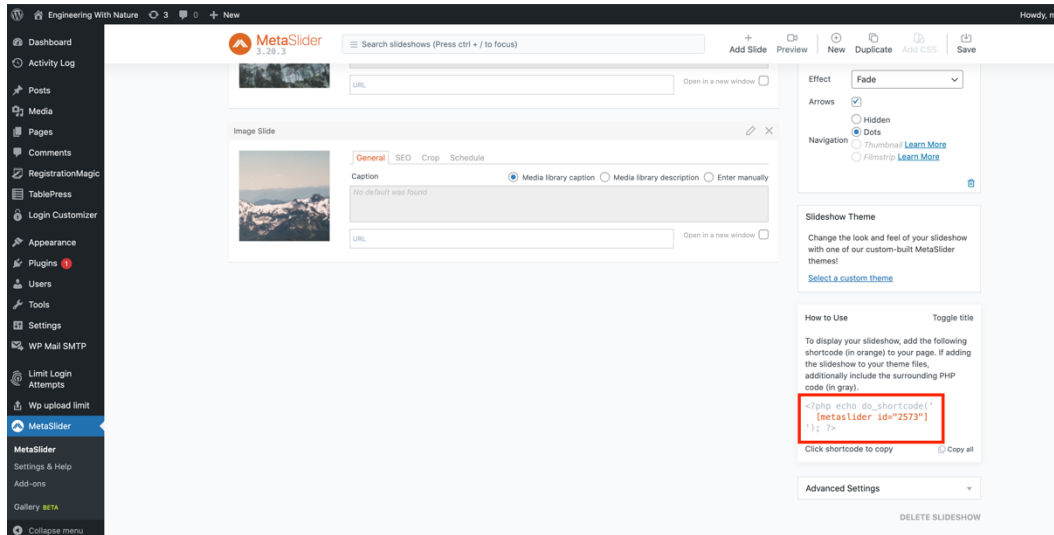
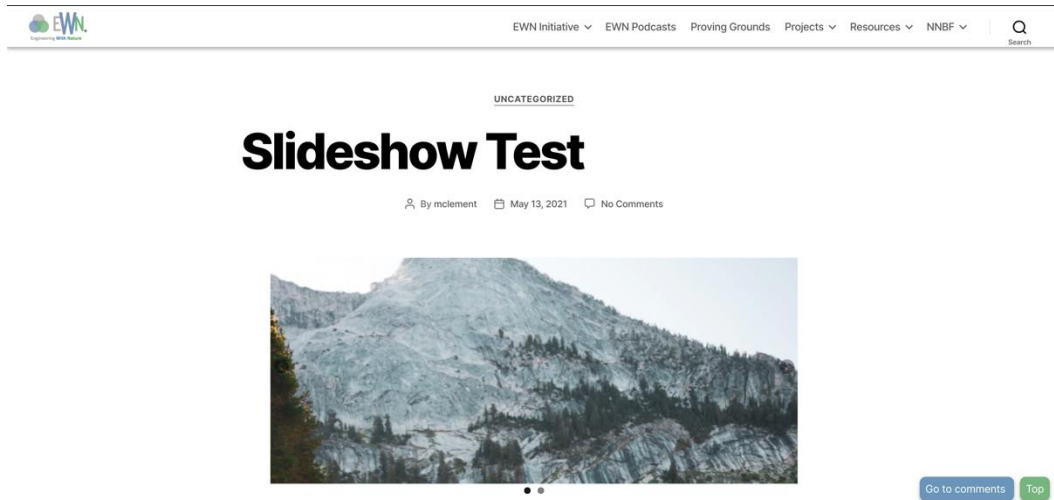


Figure 63. Slideshow in a post.



## 6.6 Configuring SMTP for email notifications (WP Mail SMTP plugin)

To configure Secure Mail Transfer Protocol (SMTP) settings (which should only have to be done once), navigate to the WP Mail SMTP plugin in the admin interface and scroll down to the **Mailer** section. From there, select **Other SMTP** and then fill in the details as pictured in Figure 64 below.

Figure 64. Configure SMTP mail settings.

The screenshot displays the WP Mail SMTP configuration page. On the left, a dark sidebar contains a menu with items like 'Login Customizer', 'Appearance', 'Plugins', 'Users', 'Tools', 'Settings', 'WP Mail SMTP' (highlighted with a red box and an arrow), 'Email Log', 'Tools', 'About Us', 'Limit Login Attempts', 'MetaSlider', and 'Collapse menu'. The main content area is titled 'Mailer' and shows a grid of mail provider logos: php, SMTP (marked 'RECOMMENDED'), sendinblue, mailgun, SendGrid, aws, Google, Microsoft, Zoho, and 'Other SMTP' (which is selected with a radio button and highlighted by a red box with an arrow). Below the provider selection, there's a link: 'Don't see what you're looking for? [Suggest a Mailer](#)'. The 'Other SMTP' section is titled 'Other SMTP' and includes instructions: 'Use the SMTP details provided by your hosting provider or email service.' and 'To see recommended settings for the popular services, as well as troubleshooting tips, check out our [SMTP documentation](#).' This section is enclosed in a red box and contains the following fields: 'SMTP Host' with the value 'gw.ercd.dren.mil', 'Encryption' with 'None' selected (options: None, SSL, TLS) and a note 'For most servers TLS is the recommended option. If your SMTP provider offers both SSL and TLS options, we recommend using TLS.', 'SMTP Port' with the value '25', 'Auto TLS' with a toggle set to 'OFF' and a note 'By default, TLS encryption is automatically used if the server supports it (recommended). In some cases, due to server misconfigurations, this can cause issues and may need to be disabled.', and 'Authentication' with a toggle set to 'OFF'. At the bottom of the configuration area is an orange 'Save Settings' button.

Once these settings are configured, plugins and behaviors that rely on SMTP (such as inquiry form submissions) will automatically use SMTP to send emails.

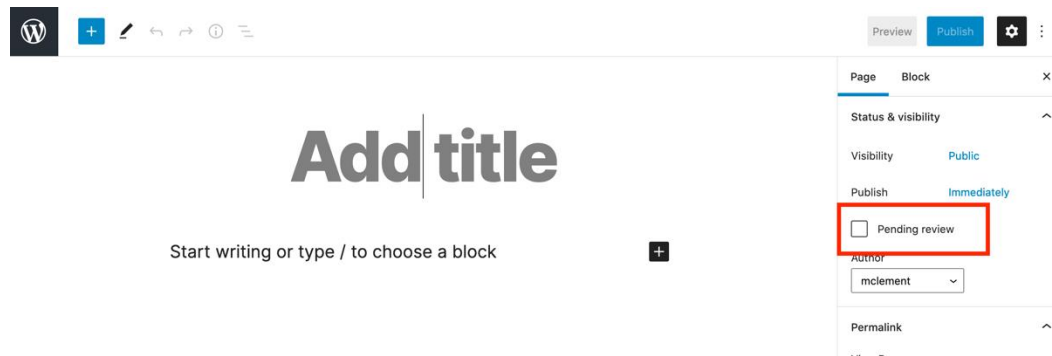
## 7 Moderation

This section will cover the moderation tools that are included in the EWN WordPress site.

### 7.1 Reviewing pending posts and pages

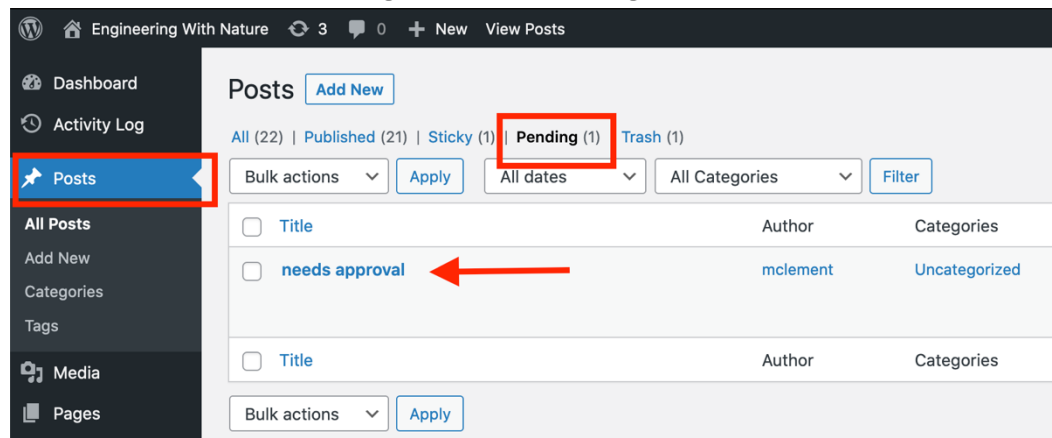
When a post or page is created, it can be saved as a draft and marked with the **Pending Review** checkbox (Figure 65).

Figure 65. Mark post or page as pending review.



When this box is checked, the post or page will display in the admin interface under the **Pending** filter (Figure 66).

Figure 66. View pending posts.



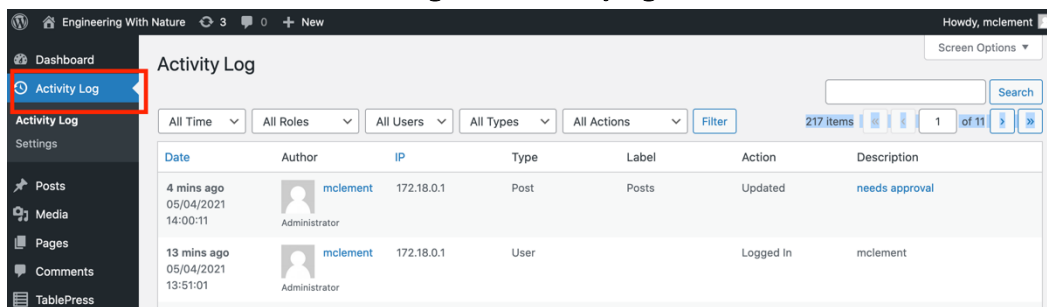
From this screen, select the post or page and, after making the appropriate edits and reviews, uncheck the **Pending Review** checkbox and publish, or simply publish the post or page by clicking the big, blue **Publish** button in the top right of the editor. This will move it from **Pending** to **Published**.



## 7.2 User activity logs

User activity logs are available in the admin interface and allow administrators to view when changes are made to the site and who made the changes. This is helpful for identifying parties responsible for edits and for documenting any unapproved postings or changes that might have been made by a malicious actor. On this page, activity is displayed along with the content that was affected, the username that made the change, the user's IP address, and other relevant information (Figure 67).

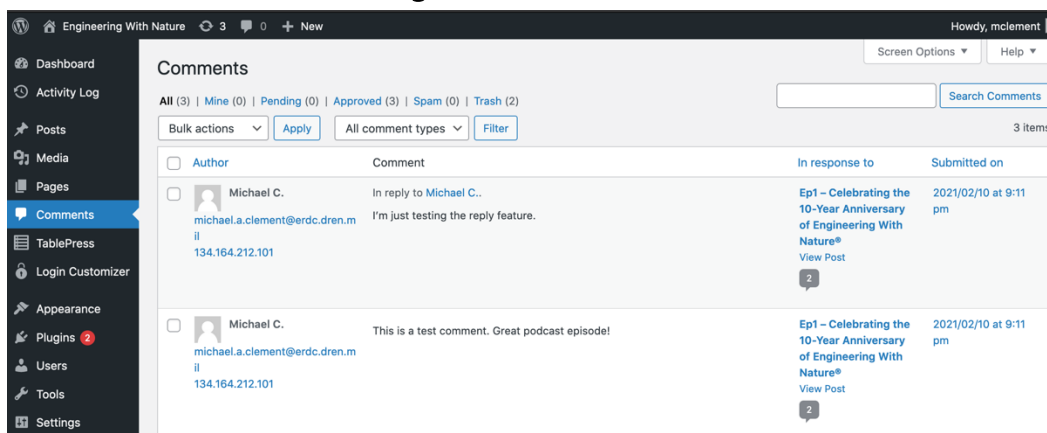
Figure 67. Activity log.



## 7.3 Comment moderation

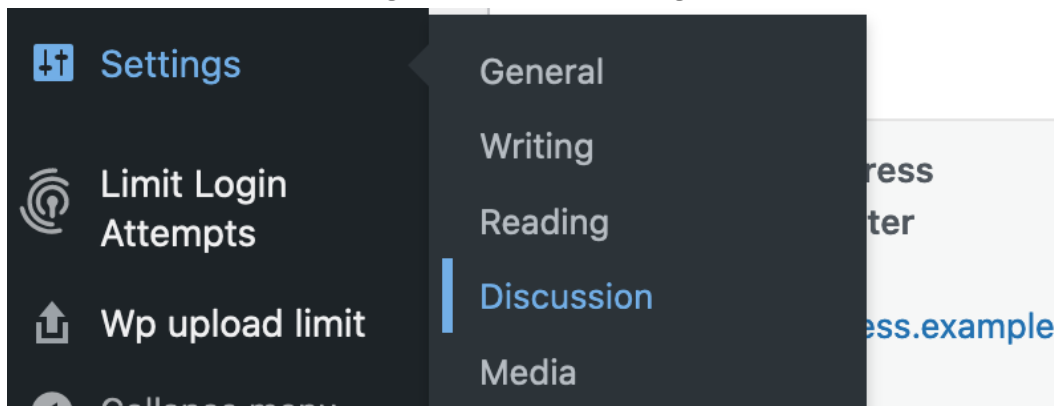
Comments can be left on the site by visitors who have provided a name and email address. If a user posts a comment for the first time, it is not automatically posted to the site but, first, must be approved in the admin interface. To view all comments, log in as a privileged user and go to the **Comments** section (Figure 68).

Figure 68. All comments.



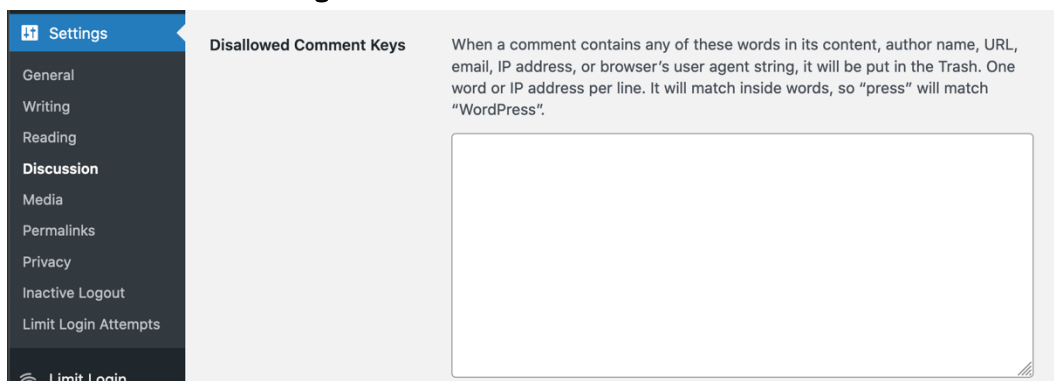
From this screen, comments can be deleted, approved, or marked as spam. After a commenter has received approval for their first comment, their future comments will automatically post without need for approval. However, this can be changed by adjusting the comment settings. To adjust the comment settings, click on **Settings -> Discussion** in the administrative sidebar (Figure 69).

Figure 69. Comment settings.



On this screen, additional comment safeguards can be put in place, including a word blacklist for disallowed words and phrases. If a comment contains words or phrases that are blacklisted, it can be automatically put in the trash. This is helpful for preventing spam comments that may be posted to the site. To add to the blacklist, go to the comment settings (**Settings -> Discussion**) and scroll down to **Disallowed Comment Keys**. In this text field, enter words or phrases (one per line) that are blacklisted (Figure 70). When finished, click the blue **Save Changes** button at the bottom of the screen.

Figure 70. Comment moderation blacklist.



## 7.4 User accounts

In order to make posts, pages, and moderate or update content, users need to have an account. Accounts have varying levels of privilege, which restricts account holder actions in specific ways. There are five different roles a user account may have—from least to most privilege, they are

1. **Subscriber**—This user is only permitted to change settings and information that pertains to their user profile.
2. **Contributor**—This user can write posts and edit or delete posts that belong to them but cannot publish a post.
3. **Author**—This user can write, edit, delete, and publish their own posts.
4. **Editor**—This user can write, edit, delete, and publish posts belonging to them or any other user.
5. **Administrator**—This user can manage all administrative settings and features on the site and create or manage all content. This includes creating other user accounts and managing their roles.

To create a user account, log in as an administrator at <https://ewn.erdcdren.milwp-admin>. From the admin interface, click on **Users** in the left-hand sidebar. From there, new users can be added by clicking **Add New** at the top of the page. This opens a form that requires a username and email address. The form generates a secure password for the user account, which must be given to the user to enable them to log in.

Existing users may be edited by selecting their usernames from the table of users (Figure 71).

Figure 71. View all users.

The screenshot displays the WordPress 'Users' management interface. The left sidebar contains navigation links: Dashboard, Activity Log, Posts, Media, Pages, Comments, TablePress, Login Customizer, Appearance, Plugins (2), Users (selected), All Users, Add New, Profile, Tools, Settings, Limit Login Attempts, Wp upload limit, and Collapse menu. The top bar shows 'Engineering With Nature', '3' notifications, '0' comments, and a 'New' button. The user 'Howdy, mclement' is logged in.

The main content area is titled 'Users' and includes an 'Add New' button. It shows a list of 6 users, with 4 Administrators and 2 Editors. The list includes checkboxes for bulk actions, a 'Bulk actions' dropdown, an 'Apply' button, a 'Change role to...' dropdown, and a 'Change' button. A search bar and 'Search Users' button are also present.

<input type="checkbox"/>	Username	Name	Email	Role	Posts
<input type="checkbox"/>	brandle	Brandon Randle	brandon.k.randle@erdc.dren.mil	Administrator	0
<input type="checkbox"/>	djackson	David Jackson	david.w.jackson@erdc.dren.mil	Administrator	0
<input type="checkbox"/>	dmittle	Matthew Little	matthew.little@erdc.dren.mil	Administrator	0
<input type="checkbox"/>	jjabour	Jo Jabour	joseph.e.jabour@erdc.dren.mil	Editor	0
<input type="checkbox"/>	mclement	—	michael.a.clement@erdc.dren.mil	Administrator	21
<input type="checkbox"/>	tmay	Trent May	trent.c.may@erdc.dren.mil	Editor	0

At the bottom of the list, there is another set of controls: a 'Bulk actions' dropdown, an 'Apply' button, a 'Change role to...' dropdown, and a 'Change' button. The total number of items is 6.

To change a user's role, click on their account and scroll down to **Role**. From the dropdown, select the desired level of privilege based on the descriptions above. When a role has been selected, click **Update User** at the bottom of the page to save the changes.

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14. ABSTRACT The Engineering With Nature (EWN) program is a high-profile effort that aims to deliver cost-effective, broadly beneficial solutions to natural re-source and sustainability challenges across the nation. A portion of this is accomplished through the use of the EWN web-site, which features news, podcasts, articles, and more. The content on the EWN website serves to educate and inform hundreds of visitors monthly. This content is generated and managed by EWN team members with web development experience, as it requires manually editing the website HTML and staging changes on a development server. With the EWN website 2.0, a new web-site framework (WordPress) has been implemented that will save content managers time and effort by providing a front-end user interface (UI) to enable the uploading, staging, and approval of new content for the website, along with a visual refresh to herald the impending release of season 2 of the EWN Podcast. This document's purpose is to demonstrate the functionality of the new EWN website and provide instructional material for those managing content via the new EWN website.					
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